ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

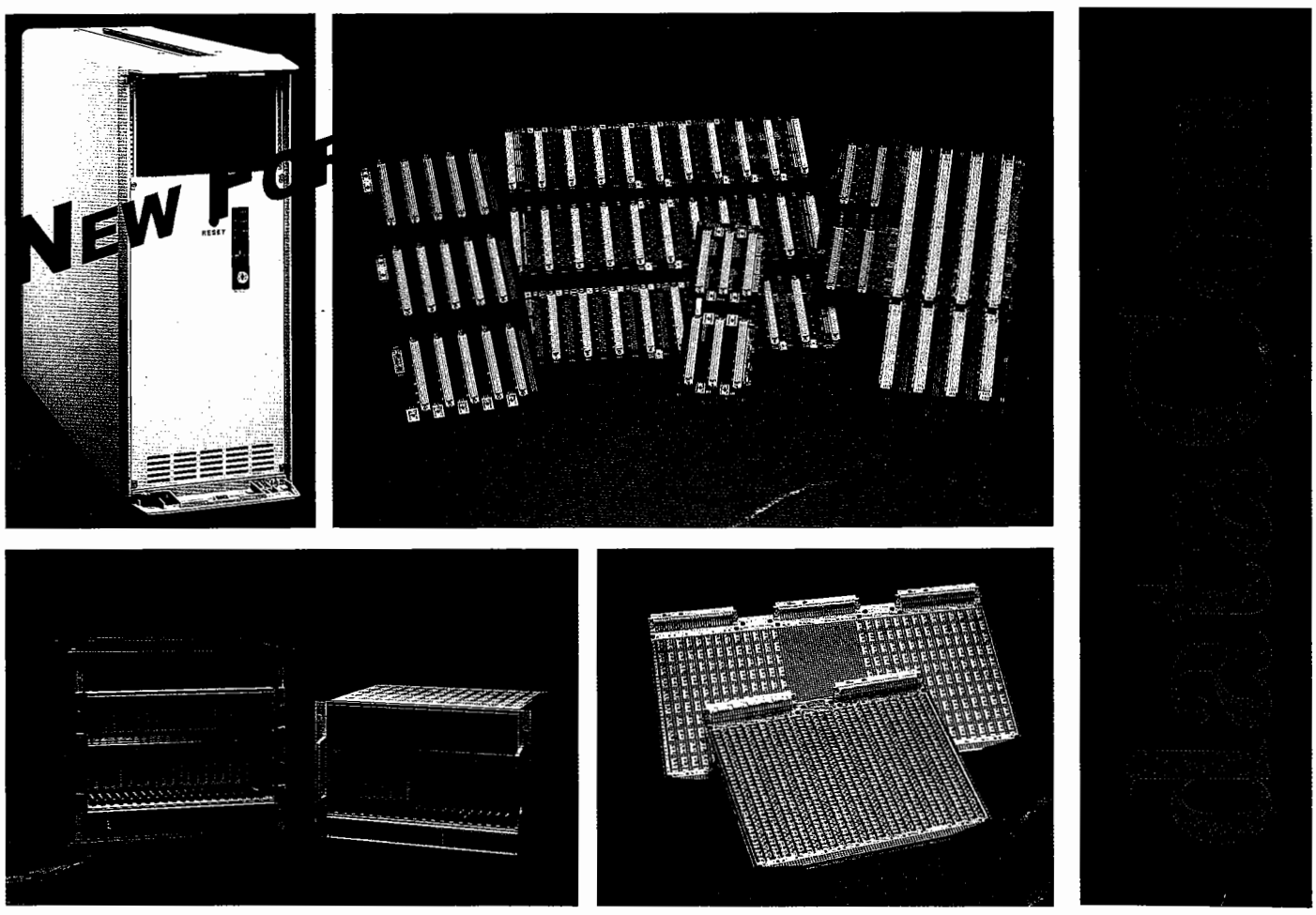
Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *dataCon / Augat VME616-01* at our website: ***Click HERE***



SYSTEMS PACKAGING PRODUCTS

VME - VXI - SUN - MULTIBUS - METRIC

BACKPLANES • SUBRACKS • WIRE WRAP BOARDS
WIRE WRAP SERVICES
CUSTOM DESIGNS • TURNKEY SYSTEMS

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

dataCon CORPORATE

DATACON'S MISSION STATEMENT

TOTAL CUSTOMER SATISFACTION AND PROFITABLE GROWTH THROUGH DATACON'S HIGH QUALITY, FAST CYCLE TIME, AND LOWER COSTS.

DATACON CORPORATE

dataCon, Inc., of Burlington, Massachusetts, was established in 1971 as a wirewrap service company to the electronics industry. dataCon provides services for a wide range of military and telecommunications systems. Applications consist of prototype to medium volume backplane assemblies and circuit boards wrapped and assembled to stringent military specifications.

dataCon, in 1989 acquired the systems packaging division of Garry Corp., Horsham, Pennsylvania. Garry's product offering consisted of standard and custom wire wrap boards, subracks and backplanes for VMEbus, SUN, VXI, Multibus and PC/AT bus. In 1991, dataCon consolidated the Garry operation into its Burlington facility.

We now offer turnkey systems packaging products built and shipped from one facility.

Today, dataCon provides the industry with a wide choice of standard and custom systems packaging products; from turnkey wire wrapped boards fully populated and tested to powered enclosures supporting the popular bus structures. dataCon utilizes its CAD/CAM and design expertise to assist the customer in implementing new designs from concept to fabrication. Our quality program insures all products are designed and fabricated to the utmost quality standards. We are committed to providing our customers with the best in high performance and quality systems packaging products.

Contact dataCon today for your new requirements. We look forward to servicing your needs.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

TABLE OF CONTENTS

dataCon PRODUCTS

BACKPLANES

- VME 3-9
- SUN 3-9
- VXI 10-12
- VSB 13
- METRIC 14-15
- FUTUREBUS + ... 16-17
- MULTIBUS I, II 36-37

SUBRACKS

- SUBRACK ASSEMBLIES 18-23
- SUBRACK MIXERS 18-23
- ORDERING GUIDE FOR SUBRACK ASSEMBLIES 19, 26-27
- ENCLOSURES 24-25

WIRE WRAP BOARDS

- 96-PIN (VME, VXI, MULTIBUS II, SUN, METRIC AND FUTUREBUS+) 28-33
- 128-PIN (VME, VXI, SUN AND METRIC) 28-33
- 108-PIN 34-35
- MBI 36-37
- IBM AT/XT 38-39
- OTHER INDUSTRY STANDARDS 40-41

EXTENDERS AND DEPTH EXTENDERS

- 96-PIN DIN SYSTEMS (VME, VXI, MULTIBUS II, SUN, METRIC AND FUTUREBUS+) 42-43
- 128-PIN DIN SYSTEMS (VME, VXI, SUN AND METRIC) 42-43

ACCESSORIES

- LOAD CARDS 43
- ACCESSORIES 44-46
- FRONT PANELS/FILLER PANELS/FRONT COVERS 47-48
- Z BARS/BUS BARS 49-51
- FAN TRAYS/DRIVE BAYS/POWER SUPPLY TRAYS 52
- VERTICAL CABINETS 53-54

dataCON SERVICES

- WIRE WRAP 55
- PRODUCTION/SOFTWARE 55
- TESTING 56
- CUSTOM DESIGNS 57
- TURNKEY SYSTEMS 58
- dataPLACE *PLUS*® 56
- ASSEMBLY 58

APPENDIX

- STANDARDS AND SPECIFICATIONS 59
- MNEMONIC CHARTS 60-67

©Copyright 1992 dataCon Corporation. All rights reserved.
dataCon, dataPlace® PLUS, are trademarks of dataCon Corporation. Multibus, Multibus II, iPSB and iLBX are trademarks of Intel Corp. SUN is a trademark of Sun Microsystems. Wire Wrap® is a trademark of Cooper Industries.

1U = 1.75" (4,44mm) 1HP = 0.2" (5,10mm) Horizontal Pitch
Specifications are subject to change without notice

0594wp5000 Printed in U.S.A.

dataCon accepts VISA Mastercard

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

dataCon PRODUCTS

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

dataCon offers a broad line of high performance VME backplanes and packaging hardware. All products are designed and manufactured to meet the highest commercial quality standards. Our product offering allows the user flexibility in new systems design.

dataCon's VME Products

dataCon's Garry division first introduced its VME products in1986. Today, dataCon is recognized as a leading supplier of VME backplanes and packaging products.

■ VITA

dataCon is an active member of VITA *(VMEbus International Trade Association).* Through our membership, our engineering staff stays abreast of all new developments for VME.

■ VME HIGH PERFORMANCE BACKPLANES

dataCon's NEW family of VME high performance backplanes are built to the highest quality standards.

VME systems are using faster processors, multiple processors and recently, VME-64 was introduced. The higher clock speeds require a high performance backplane which addresses the critical transmission line characteristics.

dataCon's new VME backplanes are designed for minimum cross talk, minimum propagational delay, controlled characteristic impedance and high signal gain. We have evaluated all components and chosen only those which demonstrate the highest quality and performance characteristics. Our backplane design and performance has been verified using a TDR (Time Domain Reflectometer).

dataCon imposes the same stringent quality standards on its VME backplanes that our customers have come to expect in all of our other dataCon products and services.

We perform Level 1 testing for opens and shorts on bare boards prior to assembly and Level 3, 100% electrical test on the fully assembled backplane. Level 3 tests are also performed through the connectors for opens and shorts as well as precision voltage and resistance measurements.

dataCon's VME Product Offering

■ VME BACKPLANES:

Sizes available from 3 to 21 slots in J1/J2 monolithic and individual J1 and J2. VSB's are available in 2 to 6 slots. The new high performance VME family from dataCon.

■ SUBRACKS:

The E-SERIES supports 3U X 160mm to 6U X 280mm boards.

The S-SERIES (Heavy Duty) supports 3U X 220mm to 9U X 400mm boards. Mixer kits are available for both series to accommodate a mix of board sizes. Subracks are available in any slot count. Front panels, filler panels and other accessories are also available.

■ EXTENDER BOARDS:

Bus compatible extenders allow the technician to extend circuit boards outside the subrack to perform troubleshooting and debug. dataCon offers all popular sizes.

■ WIRE WRAP BOARDS AND BACKPLANES:

Extensive offering of boardsizes and choice of pin patterns are available for many bus structures and industry standard designs. For prototype development or small volume production, dataCon can support your needs.We offer turnkey wire wrap boards wrapped in a fraction of the time it normally takes. Ask about our dataPlace *PLUS* ®.

■ POWERED ENCLOSURES:

dataCon designs and builds custom enclosures. We configure powered subracks, rackmount, table top units and towers. All units are designed to meet regulatory agency safety requirements: UL, CSA and IEC; also shielding requirements (EMI/RFI) of FCC and VDE.

The heart of every system is a dataCon backplane of the highest quality and performance available in the industry.

Each enclosure is designed for optimum accessibility, serviceability and effective efficient cooling schemes.

■ CUSTOM CAPABILITIES:

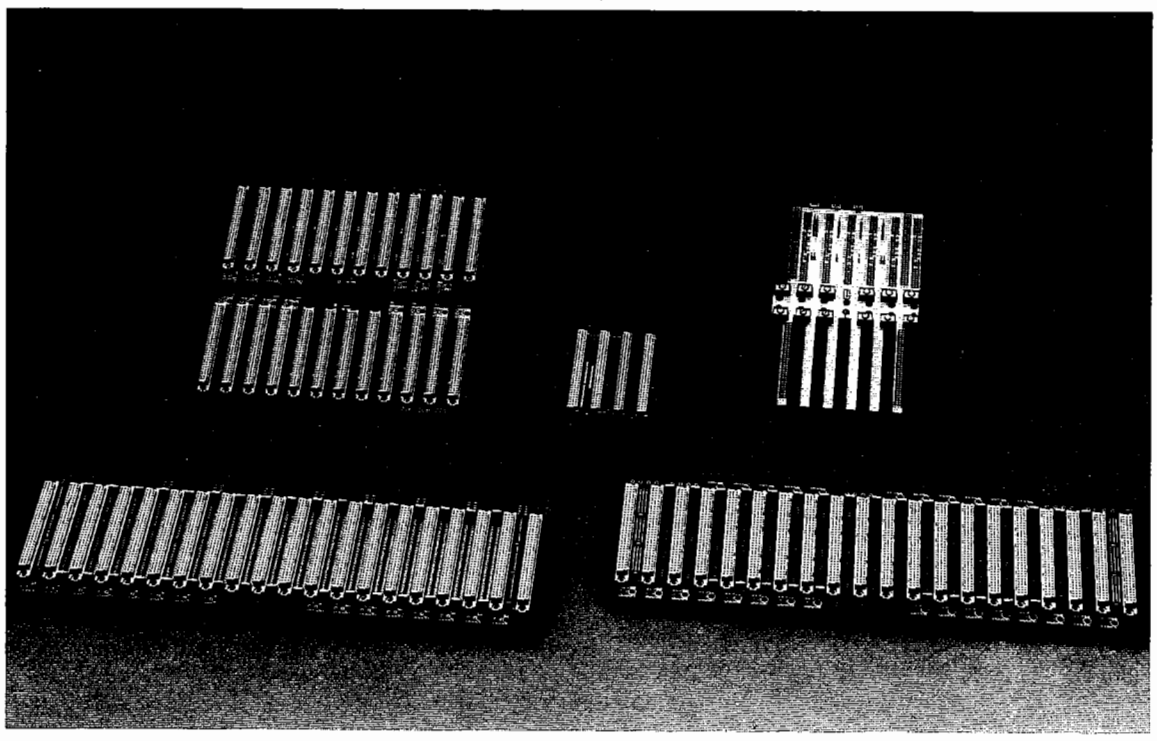
dataCon's broad range of standard products offer the designer flexibility in developing prototypes and small volume designs.

For medium to high volume applications, it may be desirable or advantageous to develop a custom design. dataCon offers its expertise in product design and manufacturing capabilities to meet all of your requirements.

Our team of design engineers and manufacturing staff will work closely with you to develop and manufacture your systems packaging products.

Call us today, we look forward to working with you.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



VMEbus BACKPLANE

VMEbus Backplane Family

dataCon's new VME backplanes are designed to meet the demands of today's high performance VME Systems. The design characteristics have been optimized to provide the highest level of performance available in the industry.

The new design features an economical six-layer, multilayer all press-fit construction. All layers are two-ounce copper. An asymmetrical structure allows the power planes to be located in close proximity to maximize distributed capacitance, controlled impedance and power distribution. Special detail has been given to optimize signal and clock line integrity.

dataCon insures the integrity of its products quality and performance by maintaining strict control over the printed circuit board material and manufacturing process.

dataCon's press-fit construction allows use of all press fit components including connectors, power blocks and sockets for termination, thus eliminating concerns related to soldering of components.

All backplanes feature BUSGRANT and IACK signal pins accessible from both sides of the backplane.

The ACFAIL, SYSFAIL, SYSRESET and SYSCLK are grouped together to accept a 4-pin header and are also accessible from both sides of the backplane.

All backplanes are able to support the new connector which provides automatic daisy chaining for all VME, SUN and VXI backplanes.

This connector has built in integrated daisy-chain switches, which are automatically activated by the insertion or extraction of a plug-in board. The automatic switches eliminate the need for manual backplane jumpering and the associated technical problems.

There are no moving parts to the connector.

Options include busbars, additional power blocks and filter caps.

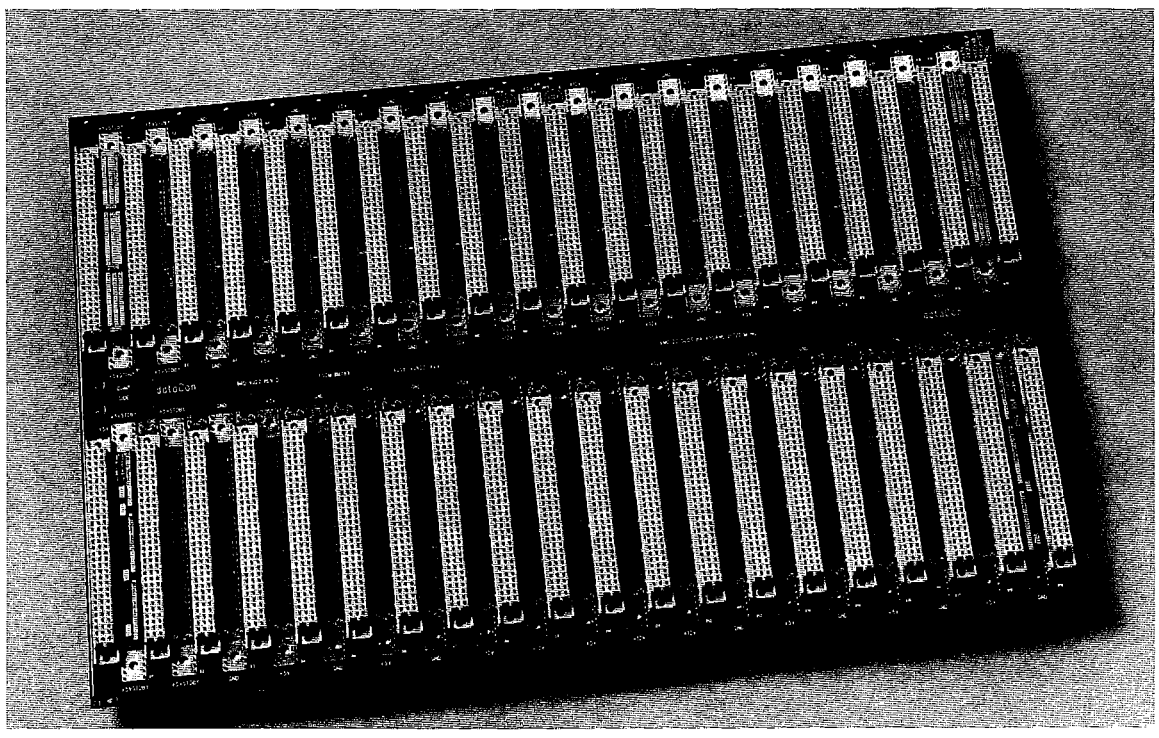
DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

BACKPLANES

J1/J2 VME



dataCon offers the system design engineer the industry's highest level of performance in VMEbus J1/J2 Monolithic backplanes.

VMEbus J1/J2 BACKPLANE

Series VJN; dataCon's monolithic VMEbus backplanes combine the J1and J2 functions into a single high performance backplane. It is designed to meet requirements of today's 32-bit and 64-bit systems.

The new design features an economical six-layer, multilayer all press-fit construction. All layers are two-ounce copper. The asymmetrical structure and transmission line design yield maximum distributed capacitance, controlled impedance, power distribution and optimum signal integrity.

The J2 shares power planes of the J1 providing even power distribution and matched impedance. Power blocks are evenly distributed across the backplane to provide a balanced supply of power throughout the J1 and J2, thus eliminating voltage drops. The power block arrangement allows for easy assembly. The VJN series comes standard with in-board termination and is designed to accept optional filter caps. Out-board is also available.

FEATURES AND BENEFITS

- **Six-layer, asymmetrical construction**

Provides maximum distributed capacitance, power distribution, controlled impedance and optimum signal and clock line integrity.

- **J1 & J2 share power planes**

Provides matched impedance and equal power distribution.

- **BUSGRANT, IACK, ACFAIL, SYSFAIL, SYSRESET, and SYSCLK are accessible from both sides of the backplane.**

Easy access of signal pins

- **100% Press-Fit Components**

Eliminates soldering concerns and increases reliability.

- **In-board termination**

Creates a shorter profile. Allows stacking of two or more backplanes in one subrack for redundant systems.

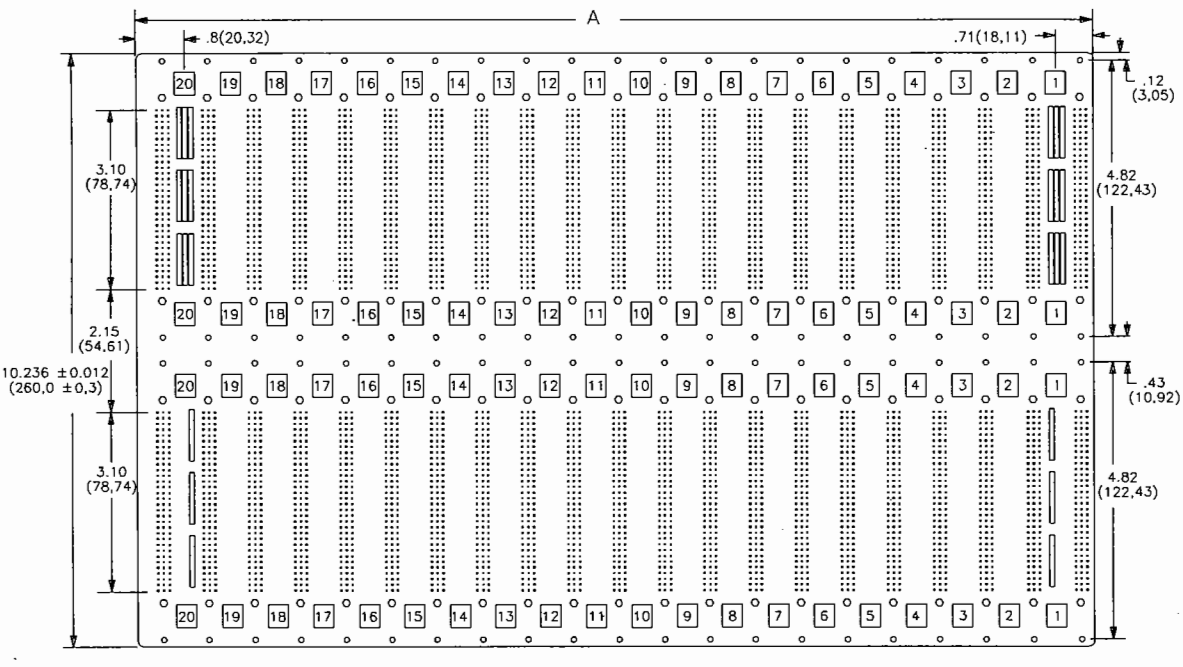
- **dataCon also offers the VKN Series with out-board termination.**
(Non-standard product)

- **ALL VME backplanes comply to VMEbus specification Rev. C. 1.**

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



J1/J2 VME BACKPLANES

OPTIONS ORDERING GUIDE

VJ X XX

BUS STRUCTURE

VJ=VME J1/J2 Monolithic/In-Board Termination

OPTIONS

N = none A = Active Term. B = Bus Bars C = Bus Bars + Shrouds
F = Filter Caps (All Slots) G = Bus Bars + Caps H = Bus Bars, Shrouds + Caps
J = Shrouds + Caps K = Shrouds/Caps/Busgrant Connector
L = Busgrant Connector M = Busgrant Connector/Caps S = Shrouds

NO. OF SLOTS

03 to 21

Ordering Information - VJN Series VME J1/J2

IN-BOARD TERMINATION			Power Block Locations*					OPTIONAL
Model No.	**Slot Count**	**Dim. A**	**+5**	**+12**	**-12**	**+5B**	**GND**	**BUS BAR KIT****
VJN03	3	2.34 (59,44)	A1,C1,D1	B1	B2	B3	A2,A3,C2,C3,D2,D3	5600102
VJN05	5	3.94 (100,15)	A1,A2,B1,C1, C2,D1,D2	B2	B3	B4	A3,A4,C3,C4 D3,D4	5600102
VJN06	6	4.74 (100,42)	A1,A3,A5,B1,C1, C3,C5,D1,D3	B2	B4	B3	A2,A4,B5,C2, C4,D2,D4	5600104
VJN07	7	5.54 (140,72)	A1,A3,A5,B1,B5,C1, C3,C5,D1,D3	B2	B4	B3	A2,A4,A6,B6,C2, C4,C6,D2,D4,D6	5600402
VJN09	9	7.14 (181,43)	B3,B7,C1,C3, C5,C7	B1	B8	B5	B2,B4,B6, C2,C4,C6,C8	5600402
VJN10	10	7.94 (201,68)	B3,B7,C1,C3, C5,C7,C9	B1	B9	B5	B2,B4,B6,B8, C2,C4,C6,C8	5600402
VJN12	12	9.54 (242,39)	B3,B7,B11,C1, C3,C5,C7,C9,C11	B1	B9	B5	B2,B4,B6,B8,B10,B12 C2,C4,C6,C8C10,C12	5600403
VJN14	14	11.14 (282,96)	B3,B5,B9,B11, C3,C5,C9,C11	B7	B8	B1	B2,B4,B6,B10,B12, C2,C4,C6,C10,C12	5600407
VJN16	16	12.74 (323,67)	B2,B4,B11,B13, C2,C4,C11,C13	B6,B7	B8,B9	B15	B1,B3,B5,B10,B12, B14,C1,C3,C5, C10,C12,C14	5600408
VJN20	20	15.94 (404,95)	B4,B6,B10,B14,B16, B18,C4,C6,C10, C14,C16,C18	B11,B12 C11,C12	B8,B9 C8,C9	B1,B2 C1,C2	B3,B5,B7,B13,B15, B17,B19,C3,C5,C7, C13,C15,C17,C19	5600408
VJN21	21	16.74 (425,27)	B4,B6,B10,B14,B18, B20,C4,C6,C10,B16, C14,C16,C18,C20	B11,B12 C11,C12	B8,B9 C8,C9	B1,B2 C1,C2	B3,B5,B7,B13,B15, B17,B19,C3,C5,C7, C13,C15,C17,C19	5600409

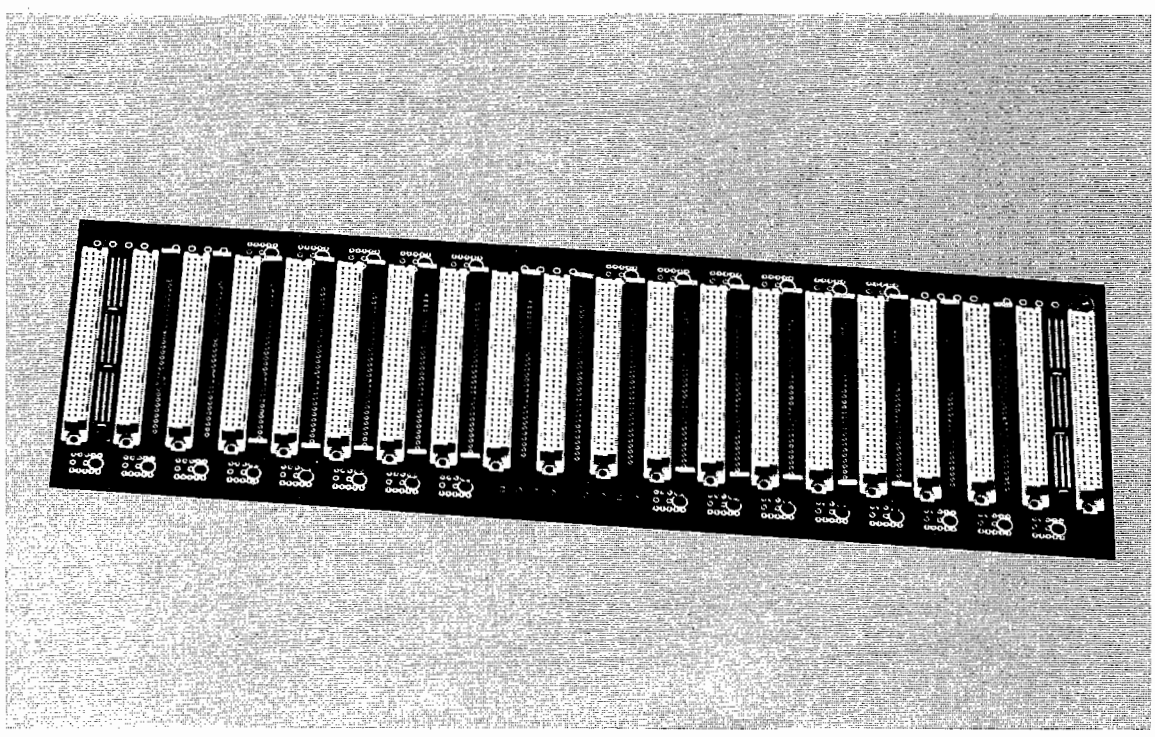
*25 Amp Max Input per Power Block (Fully Derated @ 60ºC)
**See Accessory Section for Bus Bar Drawings
Note: VME Mnemonic Chart can be found in appendix section of this catalog.
NOTE: FOR OUT-BOARD TERMINATION; ORDER THE VKN SERIES.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

J1 VME BACKPLANES



dataCon offers the system design engineer the industry's highest level of performance in VMEbus backplanes.

VMEbus J1 BACKPLANE

Series VCN dataCon's J1 high performance backplane is designed to meet requirements of today's 32-bit and 64-bit systems.

The new design features an economical six-layer, multilayer all press-fit construction. All layers are two-ounce copper. The asymmetrical structure and transmission line design yield maximum distributed capacitance, controlled impedance, power distribution and optimum signal integrity.

The power block arrangement allows for easy assembly of our optional bus bars. Also, the VCN series is designed to accept optional filter caps.

In-board termination is standard on the VCN Series. The termination is located between the first and second connectors from each end of the backplane. This creates a shorter profile and allows the stacking of two or more backplanes in one subrack for redundant systems.

dataCon also offers the VDN Series with outboard termination. (Non-standard product)

All VME backplanes are designed and manufactured in full compliance of VMEbus specification REV.C.1.

FEATURES AND BENEFITS

- **Six-layer, asymmetrical construction**

Maximum distributed capacitance, power distribution, controlled impedance and optimum signal and clock line integrity.

- **BUSGRANT, IACK, ACFAIL, SYSFAIL, SYSRESET, SYSCLK are accessible from both sides of the backplane.**

Easy access to signal pins.

- **100% Press-Fit Components**

Eliminates soldering and provides a higher level of long term reliability.

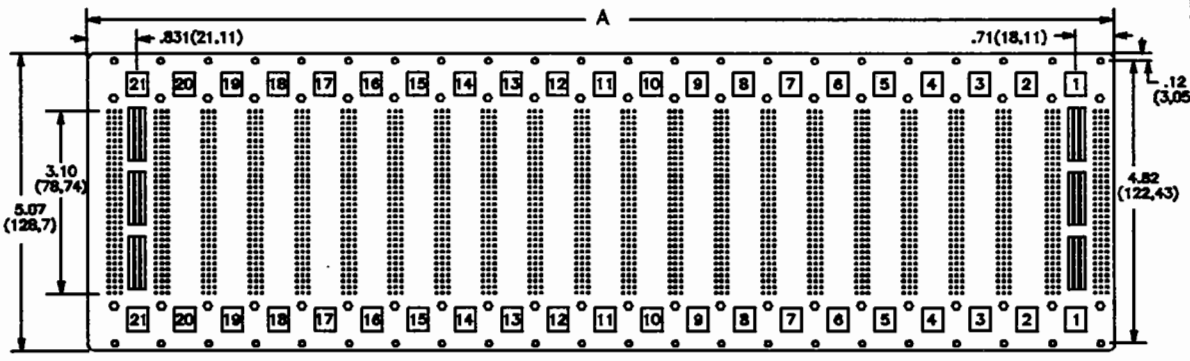
- **In-board termination**

Creates a shorter profile. Allows stacking of two or more backplanes in one subrack.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



OPTIONS ORDERING GUIDE

VC X XX

BUS STRUCTURE

VC=VME J1/In-Board Termination

OPTIONS

N = none A = Active Term B = Bus Bars C = Bus Bars + Shrouds
F = Filter Caps (All Slots) G = Bus Bars + Caps H = Bus Bars, Shrouds + Caps
J = Shrouds + Caps K = Shrouds/Caps/Busgrant Connector
L = Busgrant Connector M = Busgrant Connector/Caps S = Shrouds

NO. OF SLOTS

03 to 21

Ordering Information - VCN Series VME J1

IN-BOARD TERMINATION			Power Block Locations*					OPTIONAL
Model No.	**Slot Count**	**Dim. A**	**+5**	**+12**	**-12**	**+5B**	**GND**	**BUS BAR KIT****
VCN03	3	2.34 (59,44)	A1	B1	B2	B3	A2,A3	5600101
VCN05	5	3.94 (100,15)	A1,A2	B2	B3	B4	A3,A4 B1	5600101
VCN06	6	4.74 (100,42)	A1,A3,A5	B2	B4	B3	A2,A4,B1,B5	5600103
VCN07	7	5.54 (140,72)	A1,A3,A5, B5	B2	B4	B3	A2,A4,A6, B1,B6	5600301
VCN09	9	7.14 (181,43)	B3,B7	B1	B8	B5	B2,B4,B6	5600302
VCN10	10	7.94 (201,68)	B3,B7	B1	B9	B5	B2,B4,B6,B8	5600303
VCN12	12	9.54 (242,39)	B3,B7,B11	B1	B9	B5	B2,B4,B6,B8 B10,B12	5600305
VCN14	14	11.14 (282,96)	B3,B5,B9, B11,	B7	B8	B1	B2,B4,B6, B10,B12	5600306
VCN16	16	12.74 (323,67)	B2,B4,B11,B13	B6,B7	B8,B9	B15	B1,B3,B5,B10, B12,B14	5600307
VCN20	20	15.94 (404,95)	B4,B6,B10,B18, B14,B16	B11,B12	B8,B9	B1,B2	B3,B5,B7,B13, B15,B17,B19	5600307
VCN21	21	16.74 (425,27)	B4,B6,B10,B14, B16,B18,B20	B11,B12	B8,B9	B1,B2	B3,B5,B7,B13, B15,B17,B19,B21	5600309

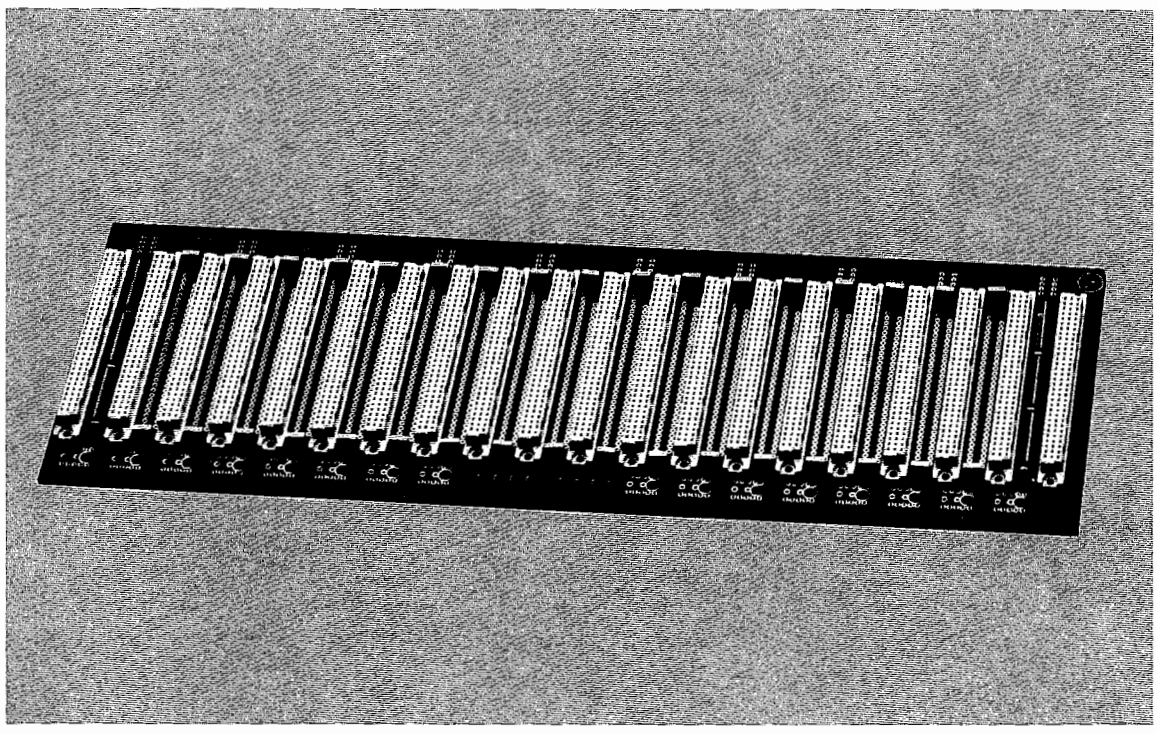
*25 Amp Max Input per Power Block (Fully Derated @ 60°C)
**See Accessory Section for Bus Bar Drawings
Note: VME Mnemonic Chart can be found in appendix section of this catalog.
NOTE: For out-board Termination Order The VDN Series.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

J2 VME BACKPLANES



dataCon offers the system design engineer the industry's highest level of performance in VMEbus J2 backplanes.

VMEbus J2 BACKPLANE

Series VGN is dataCon's J2 VME backplane for 32-bit expansion of high performance systems.

The design features six-layer construction consisting of Rows A, B and C fully bussed, all press-fit construction. All layers are two-ounce copper. The asymmetrical structure and transmission line design yield maximum distributed capacitance, controlled impedance and optimized signal integrity.

The power block arrangement matches that of the J2 monolithic series. Bus bars, filter caps and shrouds may be added as options.

The VGN Series comes standard with inboard termination. Also available is the VHN Series with outboard termination. (Non standard product)

FEATURES AND BENEFITS

- **Six-layer, asymmetrical construction**

Maximum distributed capacitance, controlled impedance and optimum signal line integrity.

- **100% Press-Fit Components**

Eliminates soldering and provides long term reliability.

- **DIN connectors are 3-level wire wrap**

End user can easily configure signals on rows A and C.

- **In-board termination**

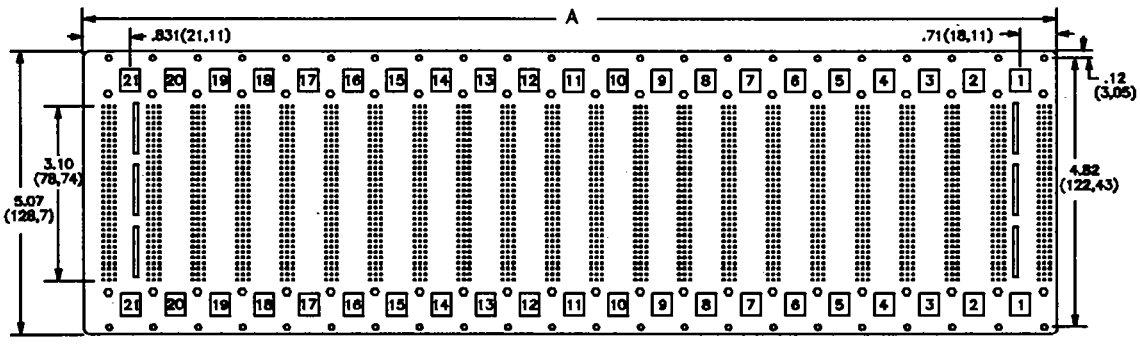
Creates a shorter profile

- **Row B is bussed per VME specification, REV.C.1.**

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



OPTIONS ORDERING GUIDE

VG X XX

BUS STRUCTURE

VG=VME J2 In-Board Termination

OPTIONS

N = none A = Active Term. B = Bus Bars C = Bus Bars + Shrouds
F = Filter Caps (All Slots) G = Bus Bars + Caps H = Bus Bars, Shrouds + Caps
J = Shrouds + Caps K = Shrouds/Caps/Busgrant Connector
L = Busgrant Connector M = Busgrant Connector/Caps S = Shrouds

NO. OF SLOTS

03 to 21

Ordering Information - VGN Series VME J2					
IN-BOARD TERMINATION			Power Block Locations*		OPTIONAL
Model No.	**Slot Count**	**Dim. A**	**+5**	**GND**	**BUS BAR KIT****
VGN03	3	2.34 (59,44)	A1,A2	B1,B2	5600101
VGN05	5	3.94 (100,15)	A1,A3, B1,B3	A2,A4, B2,B4	5600101
VGN06	6	4.74 (100,42)	A1,A3,A5, B1,B3	A2,A4, B2,B4,B5	5600103
VGN07	7	5.54 (140,72)	A1,A3,A5, B1,B3,B5	A2,A4,A6 B2,B4,B6	5600302
VGN09	9	7.14 (181,43)	B1,B3, B5,B9	B2,B4,B6,B8	5600302
VGN10	10	7.94 (201,68)	B1,B3,B5, B7,B9	B2,B4,B6,B8	5600303
VGN12	12	9.54 (242,39)	B1,B3,B5,B7, B9,B11	B2,B4,B6,B8,B10	5600305
VGN14	14	11.14 (282,96)	B1,B3,B5,B7, B9,B11,B13	B2,B4,B6,B8,B10	5600306
VGN16	16	12.74 (323,67)	B1,B3,B5,B7, B9,B11,B13,B15	B2,B4,B6,B8 B10,B12,B14	5600307
VGN20	20	15.94 (404,95)	B1,B3,B5,B7,B9,B11 B13, B15, B17,B19	B2,B4,B6,B8,B10, B12,B14,B16,B18,B20	5600307
VGN21	21	16.74 (425,27)	B1,B3,B5,B7,B9,B11 B13,B15,B17,B19	B2,B4,B6,B8,B10,B12, B14,B16,B18,B20	5600308

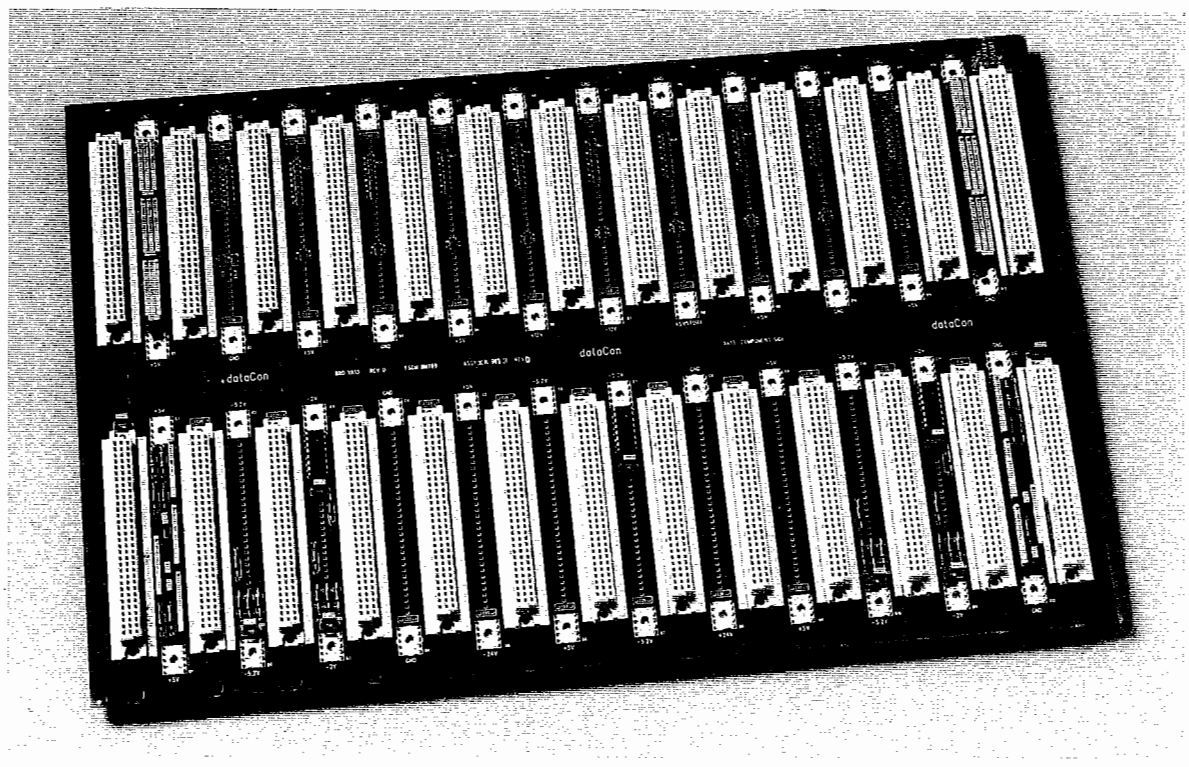
*25 Amp Max Input per Power Block (Fully Derated @ 60°C)
**See Accessory Section for Bus Bar Drawings
Note: VME Mnemonic Chart can be found in appendix section of this catalog.
NOTE: FOR OUT BOARD TERMINATION.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VXI BACKPLANES



dataCon offers the system design engineer the industry's highest level of performance in VXIbus backplanes.

VXIbus BACKPLANES

VME EXTENSIONS FOR INSTRUMENTATION

dataCon's high performance VXI backplanes fully comply to the VXI bus specifications, Rev. 1.4. Available in several sizes for both the C-size and D-size configurations.The backplanes are a 10-layer monolithic design featuring our unique strip-line and ground-shield construction. This feature provides optimum signal integrity. The result is superior impedance control; minimized crosstalk and propagational delays to perform well within the critical parameters for TTL, ECL, SUM bus and STAR bus requirements.

The 10 MHz for the C-size and 100 MHz for the D-size system clock is transferred through ECL drivers to any slot within the eight nanosecond time parameter as specified by VXI specs.

The SUN bus incorporates protection circuitry per the VXI specs.

Multiple power and ground planes provide optimum power distribution of all voltage and ground potentials.

FEATURES:

- **10-Layer Monolithic construction**
- **Unique strip-line and ground-shield design**
- **Full Implementation of VXI, Rev. 1.4**
- **100% press-fit construction**
- **SUM bus utilizes protection circuitry**
- **ECL STAR bus utilizes ECL drivers for 10 Mhz and 100 Mhz system clocks**
- **BG/IACK pins are accessible from both sides**
- **Five-Pin header for: SYSFAIL; ACFAIL; SYSRESET; +5V and GND**
- **Power is distributed through power blocks with #6-32 screws. Fully derated at 25A each.**
- **In-Board termination; socketed**

OPTIONS:

- **Bus bar kits**
- **Shrouds**

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VXI bus J1/J2 BACKPLANES OPTION ORDERING GUIDE

X K X X X

BUS STRUCTURE

XK = VXI J1/J2 Monolithic In-Board Termination
XR = VXI J1/J2/J3 In-Board Termination

NO. OF SLOTS

03 to 21

OPTIONS

N = none A = Active Term. B = Bus Bars C = Bus Bars + Shrouds
F = Filter Caps (All Slots) G = Bus Bars + Caps H = Bus Bars, Shrouds + Caps
J = Shrouds + Caps K = Shrouds/Caps/Busgrant Connector
L = Busgrant Connector M = Busgrant Connector/Caps S = Shrouds

ORDERING INFORMATION – C-SIZE SERIES VXI J1/J2

MODEL NO.	SLOT COUNT	WIDTH	POWER BLOCK LOCATIONS								
			+5V.	+12V.	-12V.	-5.2V.	-2V.	+24V.	-24V.	GND	+5B
XKNO5	5	6.190	A1,B1,C1, D1	B2	B3	C2	C3	D2	D3	A2 A3,A4, C4,D4	B4
XKNO6	6	7.390	A1,B1,B5, C1,C5,D1,	B2	B3	C2,D2,	C3,D3	D4	D5	A2,A3,A4, A5,C4	B4
XKNO8	8	9.790	A1,B1,B3, B5,C1,C5, D1,D5	B6	B7	C2,C6, D2,D6	C3,C7	D3	D7	A2,A7,B2, C4,D4	B4
XKN13	13	15.790	B1,B3,B5, B9,B11,C1, C5,C9,D1, D6,D9	B6	B7	C2,C7, C6,C10, D2,D7, D10	C3,C11 D3,D11	D8	D5	A1,A12,B2, B4,B10,B12, C4,C8,C12, D4,D12,C4, C8,C12	B8

ORDERING INFORMATION – D-SIZE SERIES VXI J1/J2/J3

MODEL NO.	SLOT COUNT	WIDTH	POWER BLOCK LOCATIONS								
			+5V.	+12V.	-12V.	-5.2V.	-2V.	+24V.	-24V.	GND	+5B
XRN05	5	6.190	A1,B1,C1, D1,E1,F1	B2	B3	C2,E2,	C3,E3	D2	D3	A2,A3,A4, C4,D4,E4, F2,F3,F4	B4
XRN08	8	9.790	A1,B1,B3, B5,C1,C5, D1,D8,E1,E5	B6,E6	B7,C7	C2,C6, D2,D6, E2	C3,C7, E3	D3	D7	A2,A7,F1, F7,B2,C4, D4,E4	B4
XRN13	13	15.790	B1,B3,B5, B9,B11,C1, C5,C9,D1, D6,D9,E1, E9	B6,E6	B7,E7	C2,C6, C7,C10, D2,D10, E2,E10	C3,C11, D3,D7, D11,E3, E11	D8 E4	D5 E5	A1,A12,F1, F12,B2,B4, B10,B12,C4, C8,C12,D4, D12,E4,E12	C4

VXI BACKPLANES

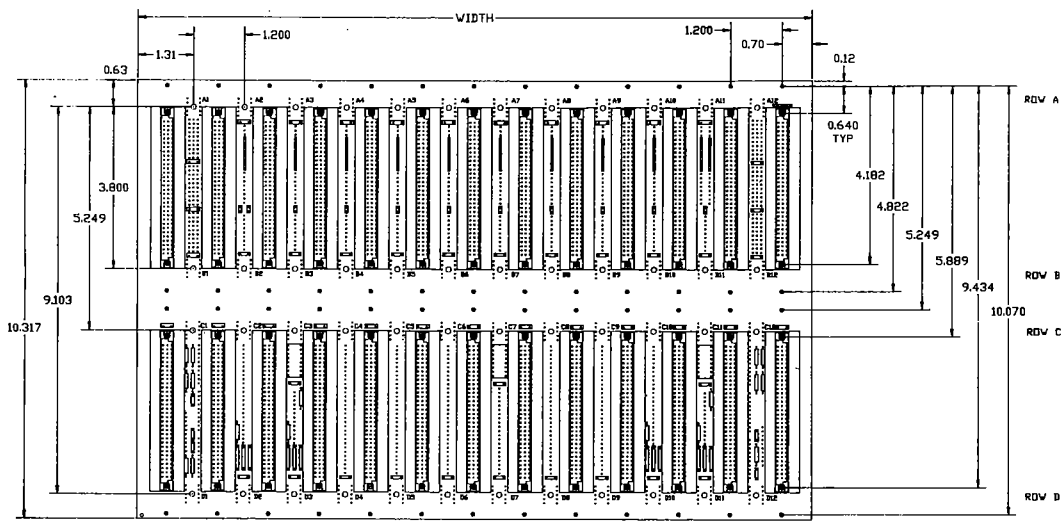
DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

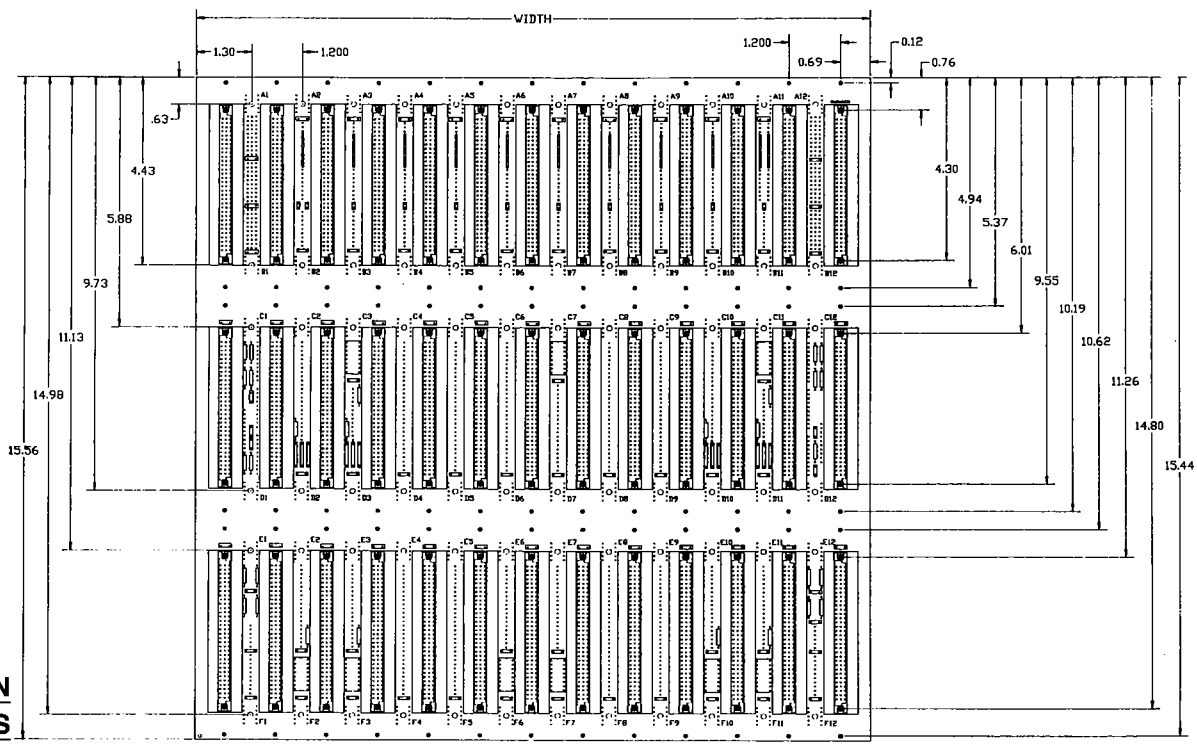
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VXI BACKPLANES

VXI bus BACKPLANES
VME EXTENSIONBUS FOR INSTRUMENTATION



Component Side
of XKN13 Shown



Component Side
of XRN13 Shown

DATACON
SYSTEMS
PRODUCTS

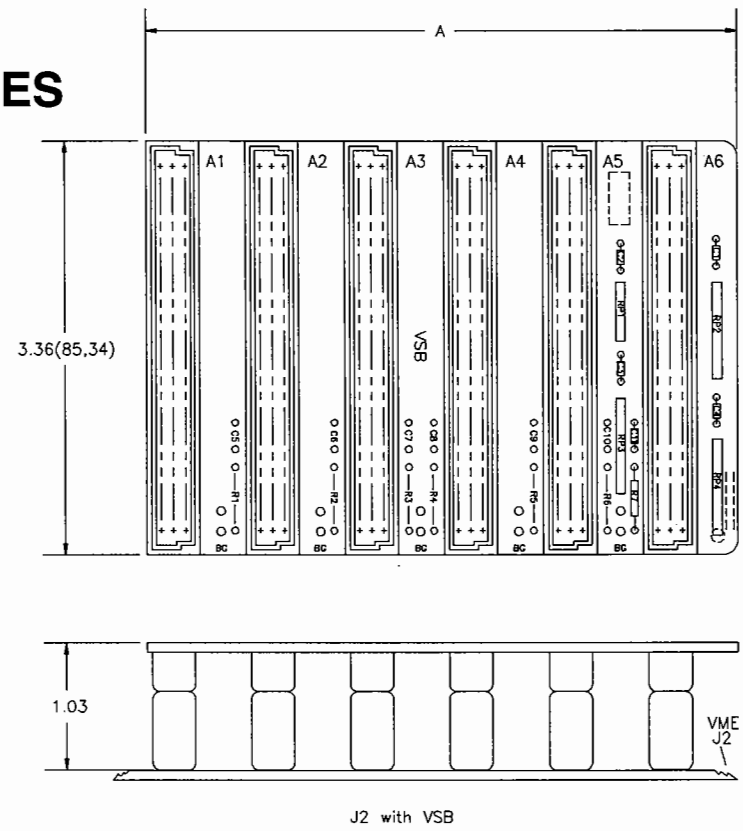
dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

dataCon offers the system design engineer the industry's highest level of performance in VSB backplanes.

VSB BACKPLANES

Our VSB Backplanes are designed for use in multiprocessor applications in high-performance 32-bit VME systems. dataCon's VSB backplanes allow for faster and more effective memory expansion without having to load the J1 backplane. The VSB easily plugs onto standard wire wrap tails using a shroud on the VME J2 backplane. In-board termination provides a low profile to allow for efficient package design. The VSB backplane is available in five sizes; 2,3,4,5, and 6 slots and fully conforms to VSB Spec REV A.1.



J2 with VSB

FEATURES AND BENEFITS

- **Conforms to VSB Spec REV.A.1.**
- **Four-layer asymmetrical construction**

Optimizes signal integrity and maximizes power distribution

- **Low profile width with onboard termination**

Allows access to all J2 Connectors.

Ordering Information – BCN Series VSB

Part No.	Slot Count	Dim A
BCN02	2	1.45 (36,83)
BCN03	3	2.25 (57,15)
BCN04	4	3.05 (77,47)
BCN05	5	3.85 (97,79)
BCN06	6	4.65 (118,11)

Accessories

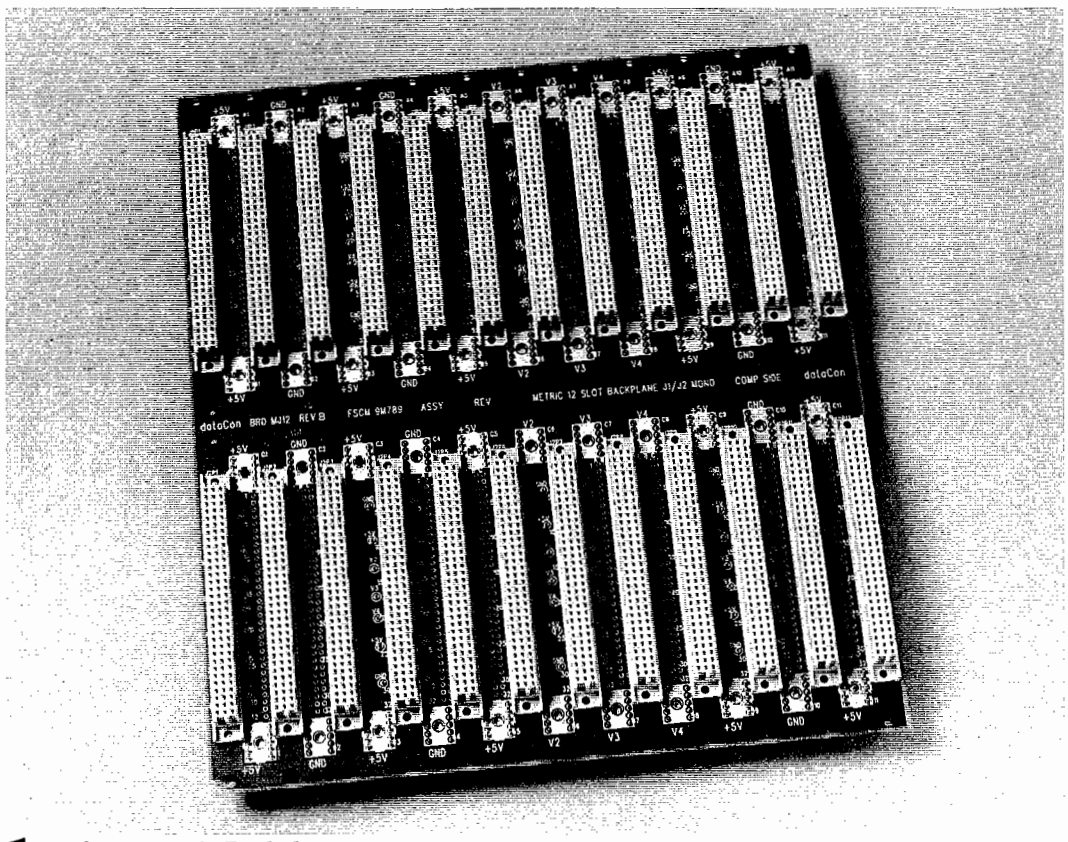
Description	Qty.	Part Number
Shroud	25	511F230

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

METRIC BACKPLANES



dataCon's Metric Backplanes offer the systems engineer a high level of quality, performance and flexibility in configuring custom bus designs.

METRIC BACKPLANES

dataCon offers a wide range of Metric Power Backplanes that provide wire wrap signal selection and flexibility. Available in 3U and 6U monolithic styles, the backplanes are offered in 4 H.P. pitch.

They are offered with both committed (6 Vcc and 6 Gnd) and uncommitted potentials. The backplanes are designed in compliance with DIN 41612 and IEC 603-2 connector specs. The power block configuration matches that of the VME backplanes and utilizes the same busbar kits. Our metric series is therefore compatible withVME, SUN, VXI and MB II bus structures. The four-layer committed backplanes feature plated through holes and are interpinned on all layers for maximum distributed capacitance and power distribution. Connectors and power blocks are press-fit, thereby eliminating solder joints and increasing reliability. Our heavy copper bus bar kits provide solid termination for high power applications. The uncommitted backplanes are designed in a double-sided style allowing all 96 pins to be user-defined.

FEATURES:

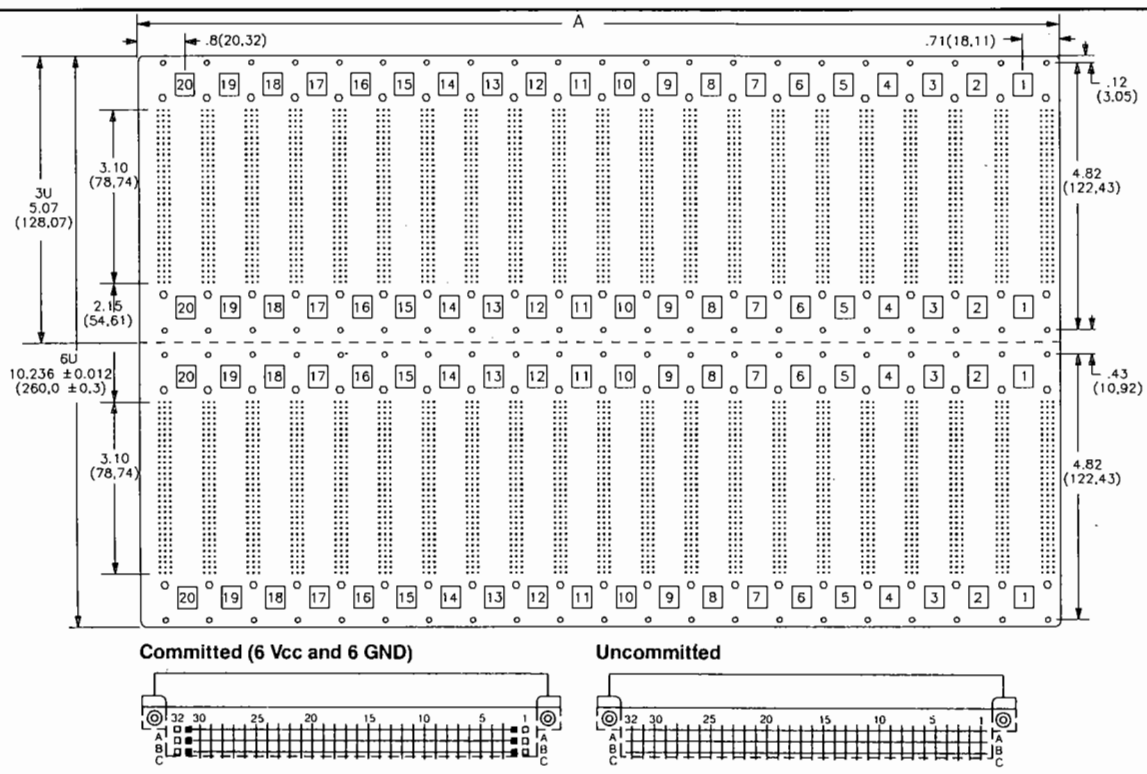
- **User definable wire wrap signal selection**
- **Asymmetrical construction**

  Maximum power distribution and distributed capacitance
- **Power block arrangement accepts VME bus bar kit.**
- **Available with committed and uncommitted power schemes**
- **Available in both 3U and 6U monolithic styles**
- **100% Press-Fit construction**

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



Legend: ■ Vcc (+5) ☐ GND

OPTIONS ORDERING GUIDE

M X X XX

BUS STRUCTURE — **No. of SLOTS**

M = METRIC

HEIGHT & POWER COMMITMENT — **OPTIONS**

(4 H.P.) B = 3U Com (+12V-12V)
C = 3U Committed
D = 3U Uncommitted
J = 6U Committed
K = 6U Uncommitted

(3 H.P.) L = 3U Committed
M = 3U Uncommitted
N = 6U Committed
P = 6U Uncommitted

(6 H.P.) F = CUSTOM
Q = 3U Committed
R = 3U Uncommitted
S = 6U Committed
T = 6U Uncommitted

(8 H.P.) V = 3U Committed
W = 3U Uncommitted
X = 6U Committed
Z = 6U Uncommitted

N = none
A = Active Term
B = Bus Bars
C = Bus Bars + Shrouds
F = Filter Caps (All Slots)
G = Bus Bars + Caps
H = Bus Bars, Shrouds + Caps
J = Shrouds + Caps
K = Shrouds/Caps/Busgrant Connector
L = Busgrant Connector
M = Busgrant Connector/Caps
S = Shrouds

Ordering Information - MCN, MDN, MJN, MKN Series Backplanes

MODEL NUMBER					DIMENSION	OPTIONAL
Committed	**Uncommitted**	**Slot Count**	**Pitch HP***	**Hgt.**	**A**	**BUS BAR KIT****
MCN06	MDN06	6	4	3U	4.74 (100,42)	5600103
MJN06		6	4	6U	4.74 (100,42)	5600104
MCN09	MDN09	9	4	3U	7.14 (181,43)	5600302
MJN09	*	9	4	6U	7.14 (181,43)	5600402
MCN12	MDN12	12	4	3U	9.54 (242,39)	5600305
MJN12	MKN12	12	4	6U	9.54 (242,39)	5600406
MCN16	MDN16	16	4	3U	12.74 (323,67)	5600307
MJN16		16	4	6U	12.74 (323,67)	5600408
MCN20	MDN20	20	4	3U	15.94 (404,95)	5600307
MJN20		20	4	6U	15.94 (404,95)	5600408

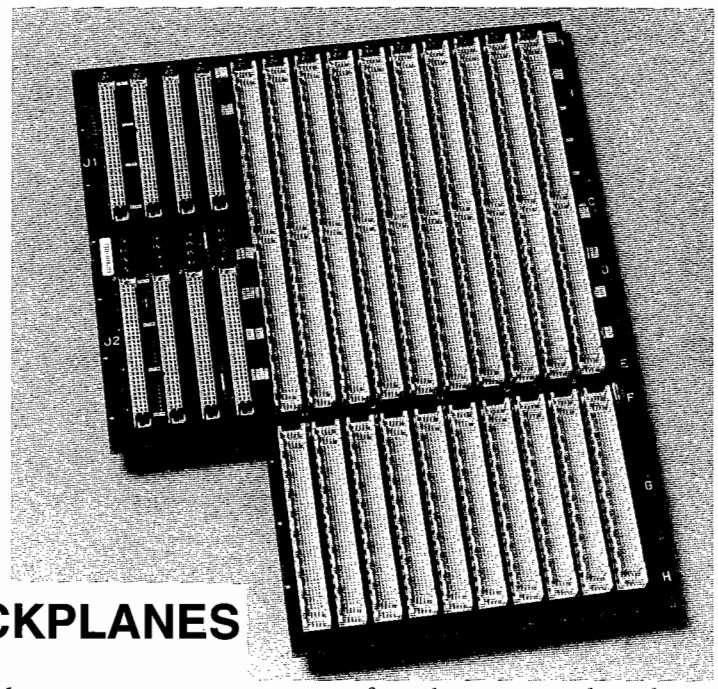
* 1 H.P. = 0.2" (Horizontal Pitch)
**See Accessory Section for Bus Bar Drawing
NOTE: The power block locations are the same as the VME J1 and J1/J2 monolithic.
Please Consult Factory for Other Pitch Selections, Slot sizes and Power Committments.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FUTUREBUS+ BACKPLANES



FUTUREBUS+ BACKPLANES

FutureBus+ backplanes represent the most advanced designs and high performance of backplanes commercially available. dataCon engineers continually keep pace with the development of the FutureBus+ definition and specifications. dataCon's boards features and performances are designed to meet the needs of the customers using FutureBus+.

The 14 layer stripline and microstrip designs use special trace routing with multiple power and ground planes to achieve low cross talk and high characteristic impedance. The dielectric of the material yields low propagational delay.

Superior power distribution design minimizes noise and ground shift. Low crosstalk based on unique signal routing. Distributed surface mount capacitors plus large bulk capacitors on board handle high di/dt.

Low inductance surface mount termination resistors reduce signal distortion.

All layers are two-ounce copper which are constructed to a strict impedance specification.

All layers are built and placed in the structure of the board design to yield maximum distributed capacitance between power and broad planes, controlled impedance and optimum signal integrity.

In board signal termination minimizes signal line length and diminishes end to end propagational delay.

The power distribution substantially eliminates voltage drops. Measured results verify dataCon's backplane is the quietest. (Test data available upon request.)

All standard boards use 100% press-fit construction. All boards have been built to the standard mil spec including soldering.

dataCon's boards achieve the maximum that can be expected from a high performance backplane. With a fast dynamic response power supply and low inductance power connection from the power supply to the backplane, the system has a superior configuration.

Boards are available in 6U and 9U formats. The 6U has 64- and 128-bit structures. The 9U has 256-bit structures.

dataCon's designs support central arbitration with the signal commits in the slot one 'E' block connector and the 'X' connector of all the slots per the 896.2 requirements.

dataCon supports the 64-bit databus and supports FutureBus+ Profiles A and B. This leaves the E block on the 192-pin I/O.

Additional designs include the full 128-bit databus which supports Profiles A, B and F. The E block in dataCon's design incorporates the 128-bit data extension plus 80-pins of I/O.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

OPTIONS ORDERING GUIDE

FX X XX

BUS STRUCTURE

FU = FUTUREBUS+ 6U 64-bit
FV = FUTUREBUS+ 6U 128-bit
FW = FUTUREBUS+ 9U 256-bit

NO. OF SLOTS

03 to 21

OPTIONS

N = none A = Active Term. B = Bus Bars C = Bus Bars + Shrouds
F = Filter Caps (All Slots) G = Bus Bars + Caps H = Bus Bars, Shrouds + Caps
J = Shrouds + Caps K = Shrouds/Caps/Busgrant Connector
L = Busgrant Connector M = Busgrant Connector/Caps S = Shrouds

BACKPLANE ORDERING GUIDE

X X X X X — **OPTIONS** **X X X**

NO. SLOTS

(01 to 26)

BUS STRUCTURE

B = VSB
C = Custom
E = EISA (PCXI)
F = FB+
I = IBM-;C
L = LLBXII
M= METRIC
N = MBI
P = MBII
S = SUN
V = VME
X = VXI

HEIGHT/STYLE TERM. METRIC

(4 H.P.)
B = 3U CoM (+12V-12V)
C = 3U Committed
D = 3U UnCommitted
J = 6U Committed
K = 6U UnCommitted
(3 H.P.)
L = 3U Committed
M = 3U UnCommitted
N = 6U Committed
P = 6U UnCommitted
(6 H.P.)
F = CUSTOM
Q = 3U Committed
R = 3U UnCommitted
S = 6U Committed
T = 6U UnCommitted
(8 H.P)
V = 3U Committed
W = 3U UnCommitted
X = 6U Committed
Z = 6U UnCommitted

OPTIONS

N = None
A = Active Term.
B = Bus Bars
C = Bus Bars + Shrouds
F = Filter Caps (All Slots)
G = Bus Bars + Caps
H = Bus Bars, Shrouds + Caps
J = Shrouds + Caps
K = Shrouds/Caps/Busgrant Connector
L = Busgrant Connector
M = Busgrant Connector /Caps
S = Shrouds

CUSTOMS STANDARD OFFERING WITH INB

VME

J1/J2 VJN
J1 VCN
J2 VGN

BUSSED BACKPLANES

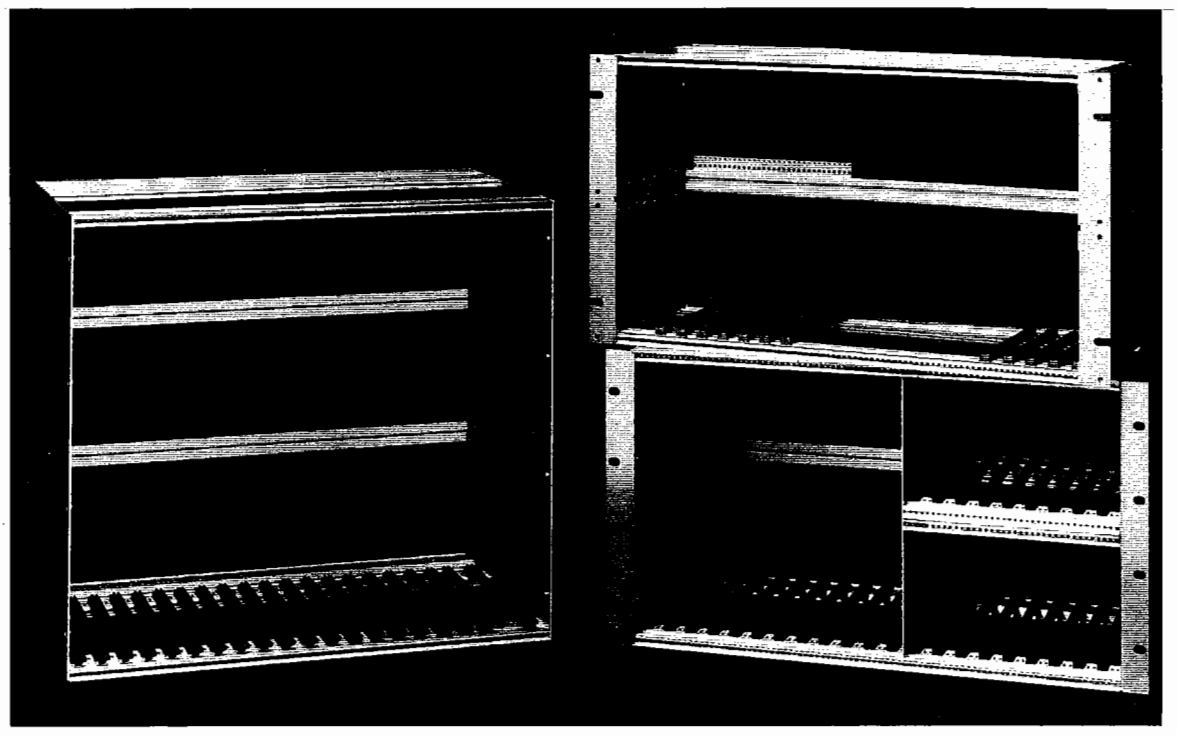
A = VME/VSB Combination
B = J1/J2 INB 6-Layer Busgrant lack Connector Implements
C = J1 INB
D = J1
E =
F = Custom
G = J2INB
H = J2
I =
J = J1/J2 INB 6-layer
K = J1/J2 10-Layer
L = J1/J2 8-Layer
M = VME J1/J2 Combination
N = J3
O =
P = J3 10-Layer
Q =
R = J1/J2/J3 INB VXI 10-Layer
S = J1/J2/J3 INB 10-Layer Custom
T = J1/J2/J3
U = FutureBus 6U 64 Bit
V = FutureBus 6U 128 Bit
W = FutureBus 9U 256 Bit
X =
Y =
Z =

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SUBRACK ASSEMBLIES



DataCon's family of Euro subracks provide the systems designer a high quality rugged design in a wide choice of sizes with mixer capability and options.

Subrack Assemblies

DataCon's Metric Subracks are designed in accordance with DIN/IEC specifications and support any plug-in active boards or wire wrap boards for VME, VXI, SUN, MBII and Metric. The aluminum subracks feature wide extrusions with high tensile strength aluminum alloy, designed to resist bending or bowing. Finished in clear chromate conversion (irridite) coating, the subrack is electrically conductive for grounding if desired. A wide variety of sizes and options are available to provide the designer a flexible packaging system.

FEATURES AND BENEFITS

- **High tensile strength extrusions**

  Resist twisting and bowing providing added support to boards

- **Slot sizes available from 2 through 26 positions**

- **Support board sizes from 3U X 160mm to 12U X 400mm**

- **Clear irridite conductive coating**

  Provides electrical ground

- **Optional EIA flanges**

  For 19" rack mount

- **Card guides may be placed on any multiple of 0.2" (5.08mm) pitch**

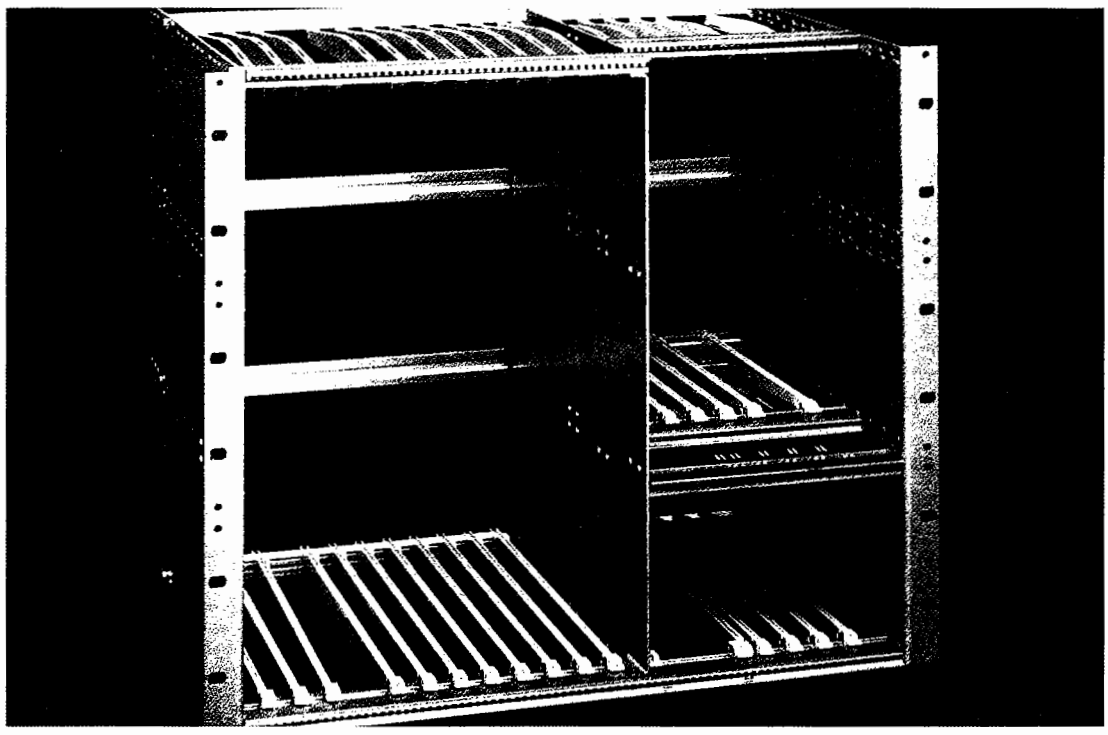
  Accommodates any slot count

  Please refer to our subrack ordering guide to specify your subrack assembly.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



SUBRACK ASSEMBLIES

dataCon offers mixer racks to accommodate a variety of height and depth combinations to suit multiple board sizes.

SUBRACK MIXER RACKS

dataCon's subracks are available in a wide variety of height and depth mixer combinations; i.e., a mix of VME 6U X 160mm boards used with 9U X 400mm wire wrap boards or sun boards.

The mixer-racks are designed in full compliance with DIN, IEC/IEEE and VME specs. It should be noted; all depth mixers utilize space taken from the available component space of the adjacent board. The depth mixer plates require approximately 0.120" equal to the plate thickness and clearance. Our design provides a rigid assembly capable of supporting all pluggable modules.

Consult factory for ordering information.

SUBRACK ORDERING GUIDE (OPTIONS)

X XX X X X X X X X X X – X X X

SERIES
2 = VME/VXI 96/128
3 = SUN
6 = HARD METRIC (FB)

NO. OF SLOTS
01 = 1 Position
21 = 21 Positions

HEIGHT
A = 3U B = 6U
C = 9U D = 12U

DEPTH
C = 160MM
D = 220MM
E = 280MM
F = 340MM
G = 400MM
H = 160MM/Bracket Holes
I = 220MM/Bracket Holes
J = 280MM/Bracket Holes
K = 340MM/Bracket Holes
L = 400MM/Bracket Holes
M = 364.49 MM/Bracket Holes

SUBRACK STYLE/ MOUNTING OPTIONS
0 = Economy Flush - 3U/6U
1 = Economy with EIA Ears - 3U/6U
2 = S-Series Flush - 6U/9U
3 = S-Series W/EIA Ears - 6U/9U
4 = Vibration Flush 6U/9U/12U
5 = Vibration W/EIA Ears 6U/9U/12U
6 = dataCon Flush Custom
7 = dataCon W/EIA Ears Custom

PITCH (HP = 0.2")
1 = 4 H.P. (0.8") *IBT
3 = 3 H.P. ((0.6")
4 = 4 H.P. (0.8") **OBT
5 = 5 H.P. (1.0")
6 = 6 H.P. (1.2")
7 = 7 H.P. ((1.4")
8 = 8 H.P. (1.6")

BACKPLANE J1 TO J4

TABLE F
TABLE G
TABLE H

(SEE NEXT PAGE FOR TABLE OPTONS)

EXAMPLE
2 2 0 B C 1 1
20 POS., 6U X 160mm, Euro Subrack, 4 H.P. with EIA Ears
*IBT = In-board Termination **OBT = Out-board Termination
IU = 1.75" (4,44MM) 1 H.P. = 0.2 " (5.10MM) HORIZONTAL PITCH

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SUBRACK ORDERING GUIDE OPTION TABLES**

TABLE F
VME – POWER SUPPLY OPTIONS

LETTER. I.D.	WATTAGE RATING	VOLTAGE/OUTPUT +5V.	VOLTAGE/OUTPUT +12V.	CURRENT -12V.	CURRENT -5V.
A =	250W.	35A.	8/12A.PK.	4A.	2A.
B =	350W.	50A.	8/12A.PK.	4A.	2A.
C =	500W.	80A.	10/16A.PK.	10A.	2A.
D =	700W.	100A.	12/20A.PK.	10A.	2A.
E =	750W.	120A.	20/30A.PK.	10A.	10A.
F =	1200W.	150A.	24A.	17A.	10A.
G =	1500W.(Dual)	240A.	17A.	17A.	10A.
I =	350W.	45A.	6A.	6A.	
L =	500W.	10A.	10A.	210A.	

VXI – POWER SUPPLY OPTIONS

LETTER I.D.	WATTAGE RATING	VOLTAGE/OUTPUT +5V.	VOLTAGE/OUTPUT +12V.	CURRENT -12V.	CURRENT -5.2V.	CURRENT -2V.	CURRENT +24V.	CURRENT -24V.
H =	670W.(Dual)	50A.	8/12A.PK.	6A.	30A.	10A.	3A.	10A.
J =	750W.	80A.	8A.	3A.	25A.	10A.	3A.	3A.
K =	1200W.	70A.	16A.	16A.	28A.	30A.	8A.	8A.
M =	2500W.(Dual)	280A.	16A.	16A.	25A.	30A.	8A.	8A.
W =					6A.			
X =							2.4A.	2.4A.
Y =	350W.	40A.	8A.	4A.		5A.		
Z =	No supply							

TABLE G
FAN OPTIONS

0 = NONE
1 = 1 FAN
2 = 2 FANS
3 = 3 FANS
4 = 4 FANS
5 = 5 FANS
6 = 6 FANS

TABLE H
BRACKET OPTIONS

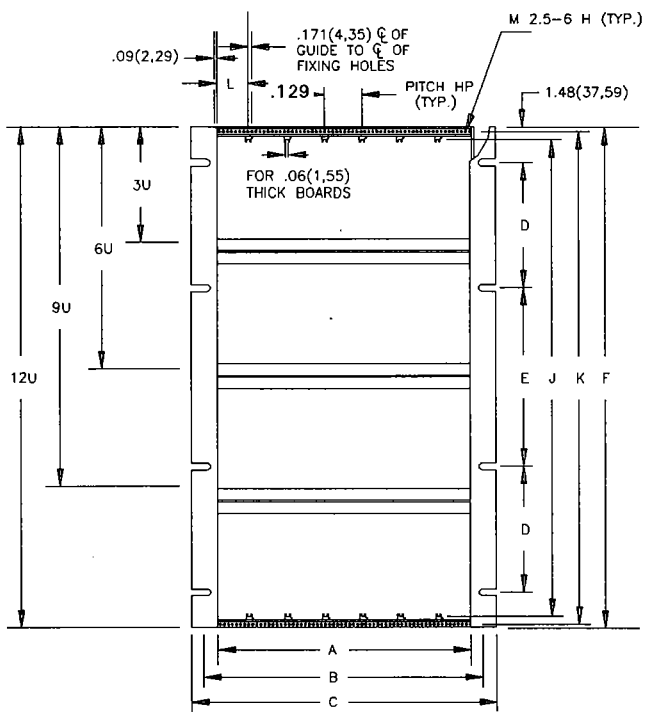
0 = None
1 = 1 Fan Bracket
2 = 2 Fan Brackets
3 = 1 Fan Bracket/ 1 Supply Bracket
4 = 2 Fan Brackets/1 Supply Bracket
5 = 2 Fan Brackets/2 Supply Brackets
6 = 1 Supply Bracket

DATACON
SYSTEMS
PRODUCTS

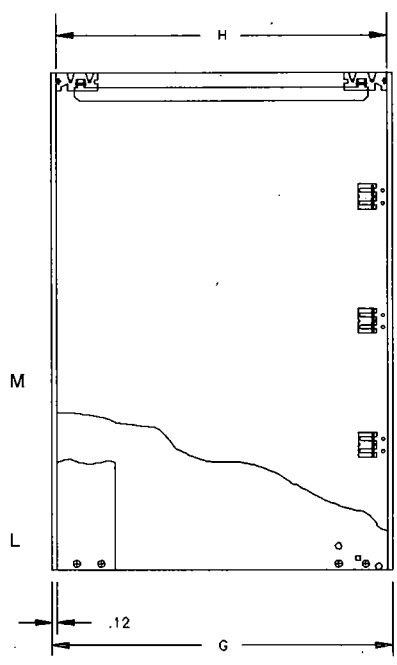
dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SUBRACK DIMENSIONS



FRONT VIEW



SIDE VIEW

1 U = 1.75 inches (4,44mm)
1H.P = 0.2" (5,10mm) Horizontal Pitch

A = Subrack opening in HP's from the inside edge. 1 HP = .2 inches
B = Dimension "A" (expressed in HP) times .2 plus 1.156 inches.
C = Dimension "A" (expressed in HP) plus 1.31 inches.

The chart below provides the maximum opening of every subrack and will be determined by the number of slots needed and the pitch between the card guides.

NUMBER OF SLOTS REQUIRED	DIMENSION A (HP'S)					
	3 HP	4HP	5 HP	6 HP	7 HP	8 HP
1	7	8	9	10	11	12
2	10	12	14	16	18	20
3	13	16	19	22	25	28
4	16	20	24	28	32	36
5	19	24	29	34	39	44
6	22	28	34	40	46	52
7	25	32	39	46	53	60
8	28	36	44	52	60	68
9	31	40	49	58	67	76
10	34	44	54	64	74	84
11	37	48	59	70	84	
12	40	52	64	76		
13	43	56	69	84		
14	46	60	74			
15	49	64	79			
16	52	68	84			
17	55	72				
18	58	76				
19	61	80				
20	64	84				
21	67					
22	70					
23	73					
24	76					
25	79					
26	84					

This Area Is Not Rack Mountable

SUBRACK HEIGHT	D	E	F	J (max) (min)	K
3U	- -	2.25 (57,15)	5.22 (132,5)	3.97(100,83) 3.94(100,08)	4.82 (122,45)
6U	- -	7.50 (190,50)	10.47 (265)	9.22(234,19) 9.19(233,43)	10.07 (255,78)
9U	4.00 (101,60)	4.75 (120,65)	15.72 (399,2)	14.46(367,28) 14.44(366,78)	15.32 (389,13)
12U	5.25 (133,35)	7.50 (190,50)	20.97 (532,55)	19.71(500,63) 19.69(500,13)	20.57 (522,48)

PLUG-IN UNIT DEPTH	G	H
6.30 (160)	6.905 (175,4)	6.92 (176)
8.66 (220)	9.26 (235,4)	9.29 (236)
11.02 (280)	11.59 (294,4)	11.65 (296)
13.39 (340)	13.97 (354,9)	13.99 (355,5)
15.75 (400)	16.33 (414,9)	16.35 (415,5)

PITCH (HP)	L	PITCH (HP)	L	PITCH (HP)	L	PITCH (HP)	L
2	34 (8.64)	4	•.63 (15,89)	6	1.14 (28,96)	8	1.34 (34,04)
3	54 (13,72)	5	.94 (23,88)	7	1.14 (28,96)		

•Less .40 (10,16) when figuring for off-board terminated backplanes

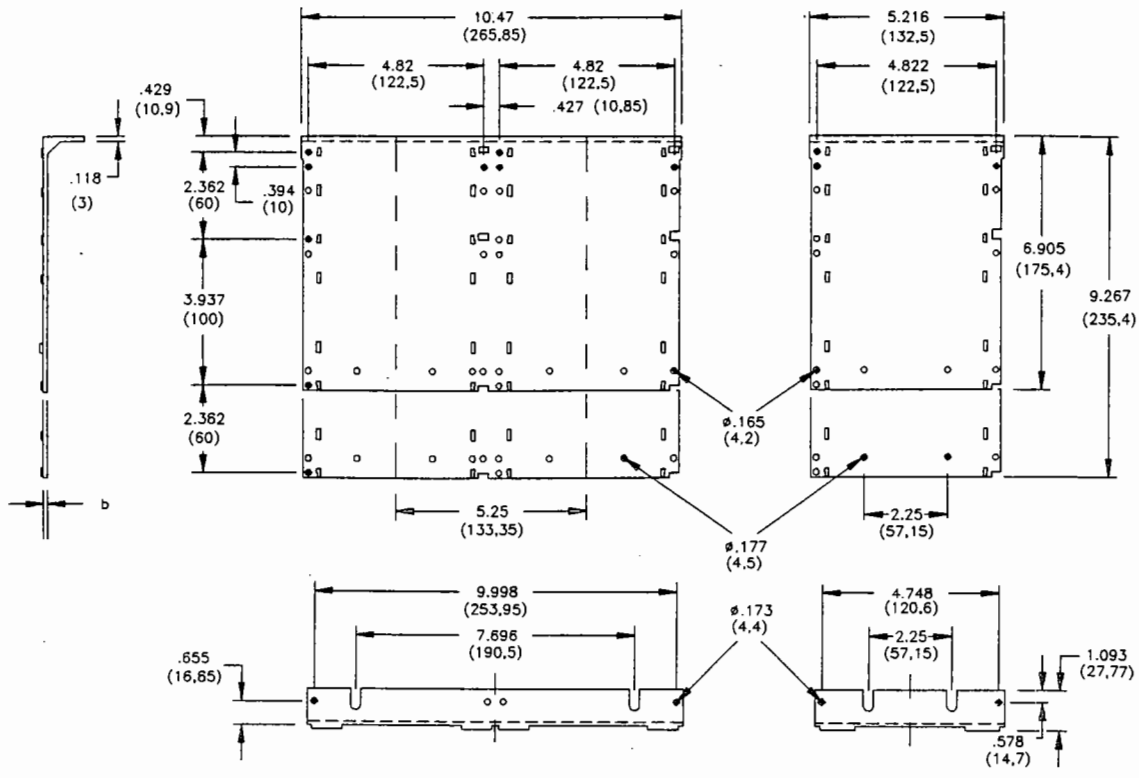
DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

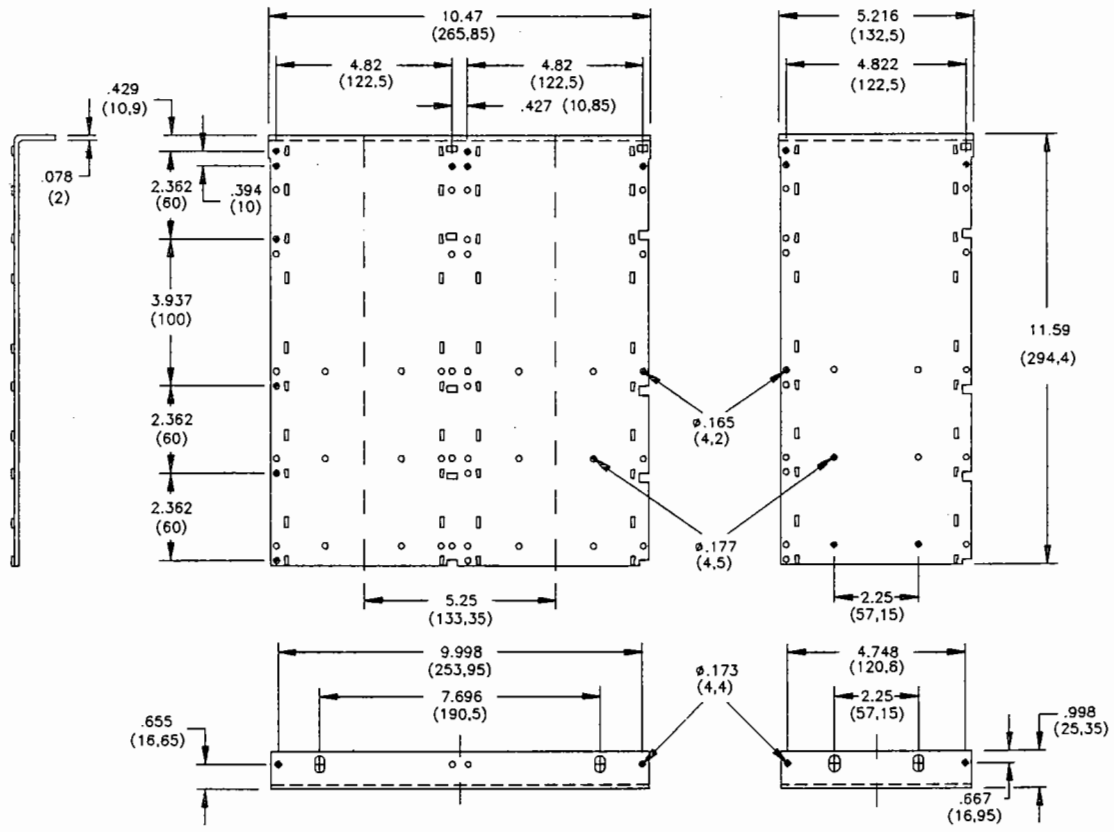
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SIDEPLATE DIMENSIONS

Side Plate E-Series, 160 and 220mm Deep



Side Plate E-Series, 280mm Deep

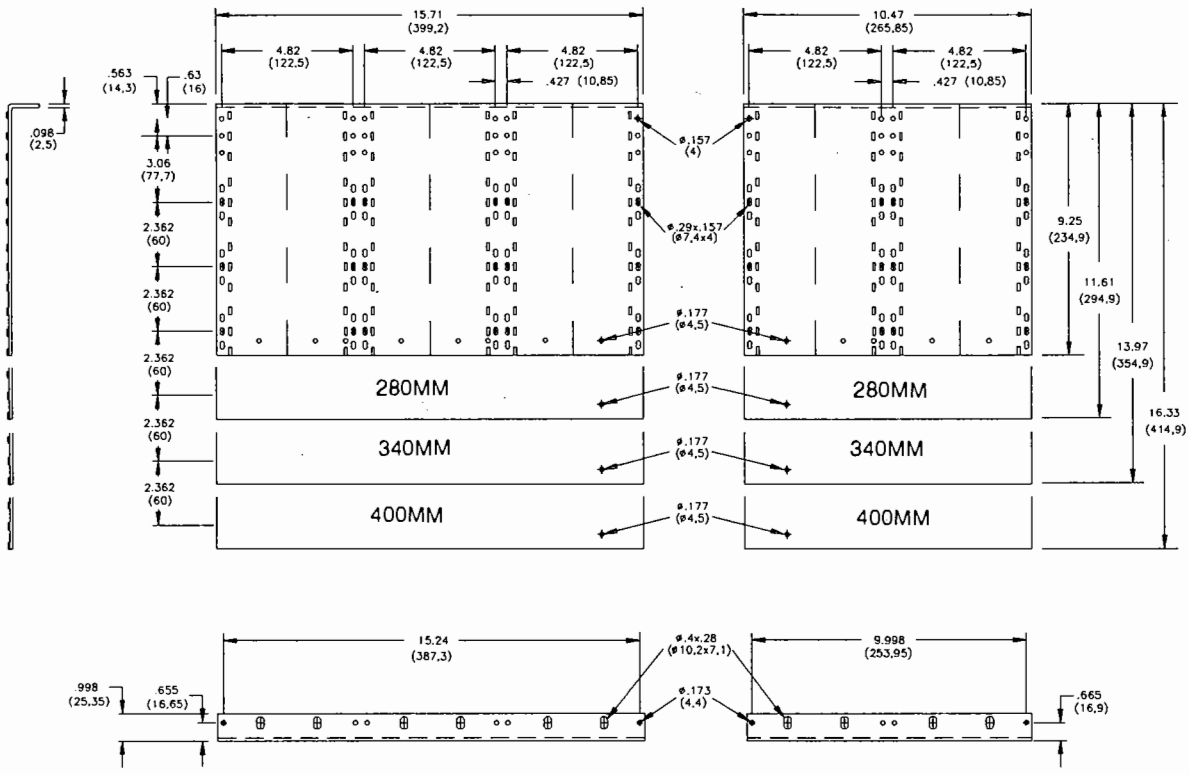


DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Side Plate S-Series, 160mm, 220mm, 280mm, 340mm and 400mm



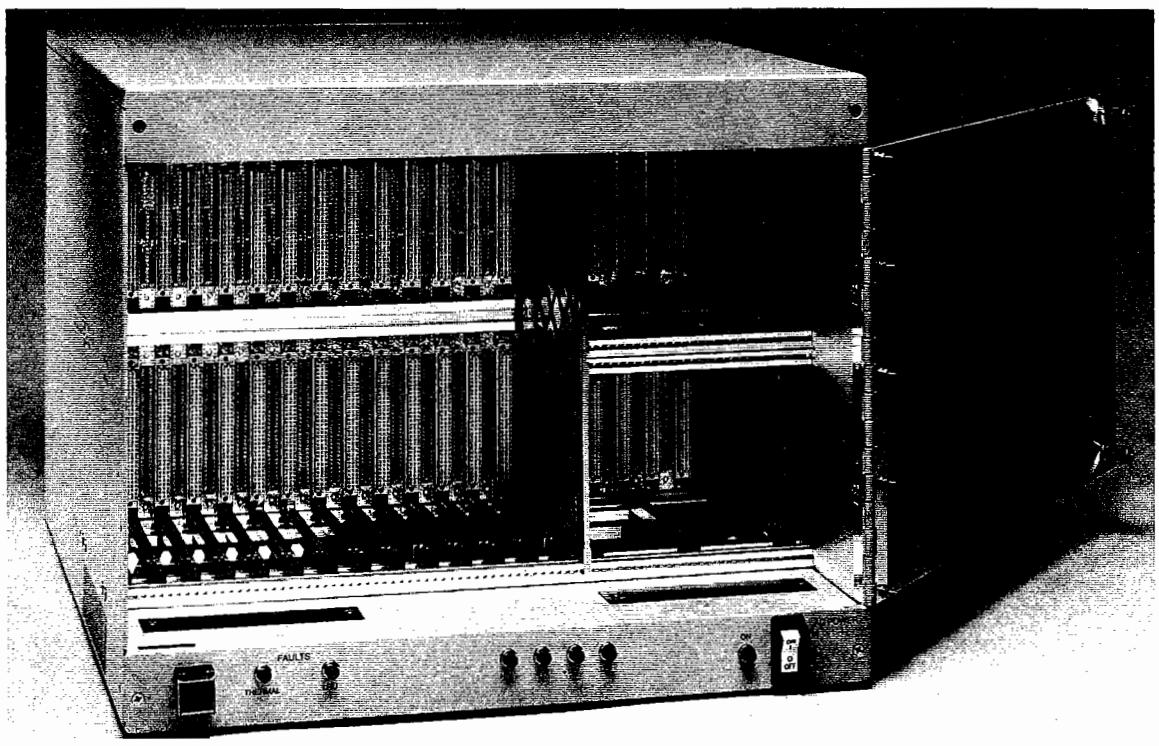
SIDEPLATE DIMENSIONS

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

dataCon ENCLOSURES



121/126 & 131/136-SERIES ENCLOSURES VME, VXI, SUN, MBII, METRIC.

dataCon's Modular series of vertical powered enclosures offers flexibility for ease of customization and provides optimum cooling; accessability and serviceability.

The 121/131 Series accepts up to 20 slots of 6U x 160mm to 9U x280mm boards. The 126/136 Series accepts up to 20 slots of 6U x160mm to 9U x 400mm boards. Both units are designed to meet Regulatory Agency and Safety requirements of UL, CSA, IEC, FCC, Class A and VDE.

FEATURES

- **Rugged, lightweight aluminum construction**
- **Ease of accessibility and serviceability to major components; (i.e., power supply minimizes M.T.R.)**
- **Evacuation cooling for optimum efficiency**
- **dataCon high performance, high quality backplane; The Heart of Every System**
- **100% electrical testing of all units**
- **Limited warranty**

OPTIONS

- **Front or rear access**
- **EIA flanges**
- **Slide Provisions**
- **Drive provisions**
- **Rear I/O panel**
- **Rear transition panel**
- **Choice of backplanes**
- **Choice of power supplies**
- **Air filters**

SPECIFICATIONS

121-Series

Height = 8U (14") minimum
Width = 17" (19" with EIA ears)
Depth = 21" (131 - Series = 22")

126-Series

Height = 8U (14") minimum
Width = 17" (19" with EIA ears)
Depth = 26" (136 - Series = 27")

Electrical

Frequency = 47 to 67 Hz
Voltage = 85-132 VAC
or 180-264 VAC
Power = 250 to 2500 watts

Environmental

Cooling = 210 CFM to 900 CFM
Operating Temperature
= 0 to 55 C
Storage Temperature
= 20 to 85 C
Humidity = Less than 95%
non-condensing

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

ORDERING GUIDE ENCLOSURE (OPTIONS)

X X X X X X X X X X X X – X X X

ENCLOSURE SERIES

102 = Power Rack
110 = Horizontal
121/131 = Vertical Full Encl.
126/136 = Vertical Full Encl.
129 = 9U VXI Vertical Full Encl.
140 = 9U Vertical Full Encl.
160 = Tower

TABLE A ENCLOSURE

HEIGHT (U = 1.75")

U = INCH
2 = 2U 3.50"
3 = 3U 5.25"
4 = 4U 7.00"
5 = 5U 8.75"
6 = 6U 10.50"
7 = 7U 12.25"
8 = 8U 14.00"
9 = 9U 15.75"
0 = 10U 17.50"
A = 11U 19.25"
B = 12U 21.00"
C = 13U 22.75"
D = 14U 24.50"
F = 15U 26.25"

BACKPLANE

(Refer to catalog for Part Number)

TABLE B

MTG STYLE

A = EIA Flange Handles
B = EIA + Slide Prov. 17. Outside
C = Comb. EIA Bars + Slide Prov. 17. Outside
D = Desktop 17. Inside
E = Prov. EIA Bars + Slides 17. Outside
H = EIA Flange Handles/Slides 17. Outside
K = EIA Kit
T = Tower

CARD ACCESSORIES

F = Front
R = Rear
T = Top

TABLE C

TABLE D

TABLE E

TABLE B
VME – POWER SUPPLY OPTIONS

LETTER. I.D	WATTAGE RATING	VOLTAGE/OUTPUT +5V.	VOLTAGE/OUTPUT +12V.	CURRENT -12V.	CURRENT -5V.
A =	250W.	35A.	8/12A.PK.	4A.	2A.
B =	350W.	50A.	8/12A.PK.	4A.	2A.
C =	500W.	80A.	10/16A.PK.	10A.	2A.
D =	700W.	100A.	12/20A.PK.	10A.	2A.
E =	750W.	120A.	20/30A.PK.	10A.	10A.
F =	1200W.	150A.	24A.	17A.	10A.
G =	1500W.(dual)	240A.	17A.	17A.	10A.
I =	350W.	45A.	6A.	6A.	
L =	500W.	80A.	10A.	10A.	242A.

VXI – POWER SUPPLY OPTIONS

LETTER I.D.	WATTAGE RATING	VOLTAGE/OUTPUT +5V.	VOLTAGE/OUTPUT +12V.	CURRENT -12V.	CURRENT -5.2V.	CURRENT -2V.	CURRENT +24V.	CURRENT -24V.
H =	670W.(Dual)	50A.	8/12A.PK.	6A.	30A.	10A.	3A.	10A.
J =	750W.	80A.	8A.	3A.	25A.	10A.	3A.	3A.
K =	1200W.	70A.	16A.	16A.	28A.	30A	8A.	8A.
M =	2500W.(Dual)	280A.	16A.	16A.	25A.	30A.	8A.	8A.
W =					6A.			
X =							2.4A.	2.4A.
Y =	350W.	40A.	8A.	4A.		5A.		
Z =	No supply							

ENCLOSURE ORDERING GUIDE OPTIONS**

TABLE C FRONT/REAR PANELS

1 = Solid Front and Rear Panels
2 = Solid Front Panel, with I/O Rear Panel
3 = Solid Front Panel With Moto. Trans. Panel
4 = Aesthetic Front Panel
5 = Aesthetic Front Panel With Solid Rear Panel
6 = Aesthetic Front Panel With Moto. Trans. Panel
7=
8 =
9 = Custom Enclosure (9xx Sequential)

TABLE E DRIVE PROVISION

0 = None1 = One Full Height 5-1/4" - Front Access
2 = Two Full Height 5-1/4" - Front Access
3 = Four Full Height 5-1/4" - Front Access
4 = Four Full Height 5-1/4" - Two Front Access and Two Internal
5 = Removable Drive Bay; One Full Height, 5-1/4"
6 = Removable Drive Bay; Two Full Height, 5-1/4"
7 = Removable Drive Bay; Two Half Height, 3-1/2"

*** NOTE: Enclosures which include customization, modifications or features not identified in the ordering guide shall have the last three characters of the part number assigned at time of order entry.*

TABLE D SUBRACKS

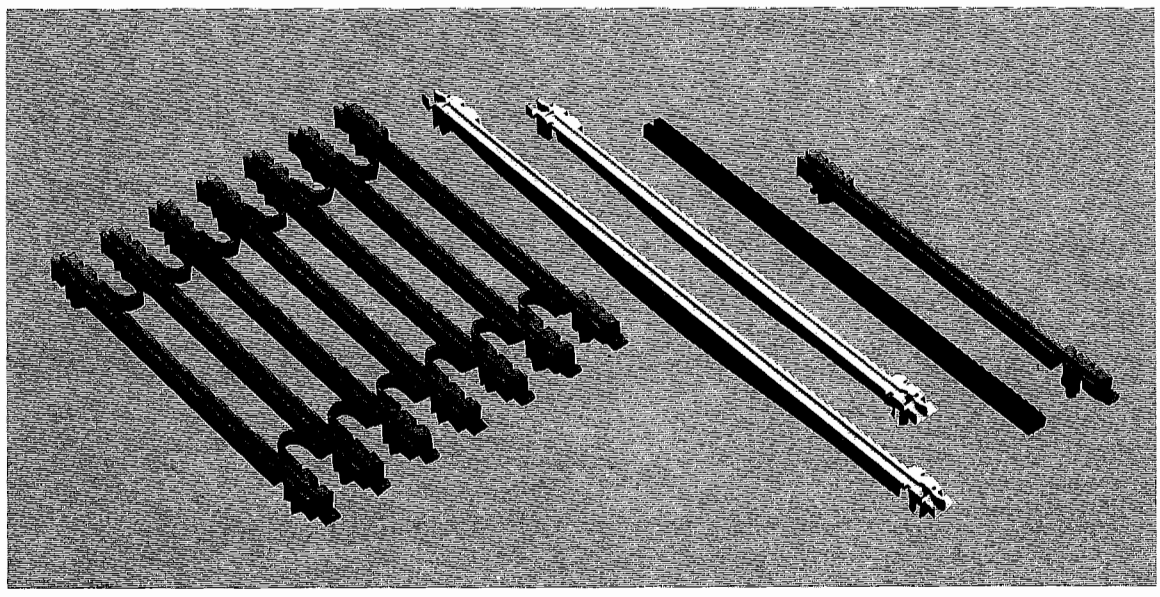
A = 6U x 160mm
B = 6U x 220mm
C = 6U x 280mm
D = 6U x 340mm
E = 6U x 400mm
F = 9U x 160mm
G = 9U x 220mm
H = 9U x 280mm
J = 9U x 340mm
K = 9U x 400mm
L = 12U x 160mm
M = 12U x 220mm
N = 12U x 280mm
O = 12U x 400mm
P = 12U x 400mm
Q = Mixed Subrack (See Bill of Material for Further Information)
Z = Custom Subrack

ORDERING GUIDE

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



CARD GUIDES

dataCon's card guides are designed to guide and support plug-in units in accordance with DIN 41494 specs.

E-SERIES

Compatible with our E-Series subracks. They are available in160mm and 220mm lengths. They accept 0.062" thick PCB's. Available in single units or a 7-Fold group molding.

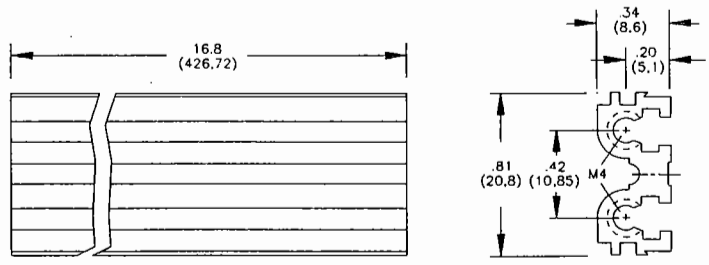
S-SERIES

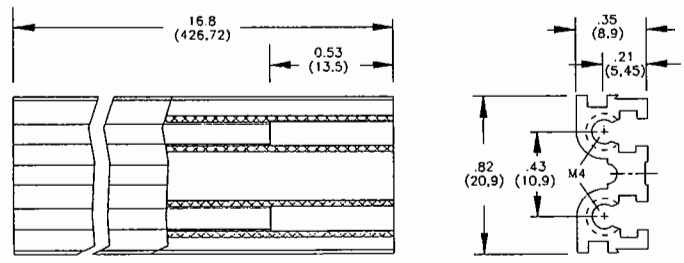
Compatible with our heavy duty S-Series subracks. They consist of a center guide which snaps into two end pieces. Available in 160, 220, 280, 340 and 400mm lengths. They accept 0.062" and 0.093"thick PCB's.

FEATURES AND BENEFITS

- **NORYL, UL 94 V-O**
- **Temperature rating -40°C to 100°C**
- **Both the E-SERIES and S-SERIES guides can be secured by M 2.5 X 5mm screws.**

CENTER EXTRUSION FOR E-SERIES





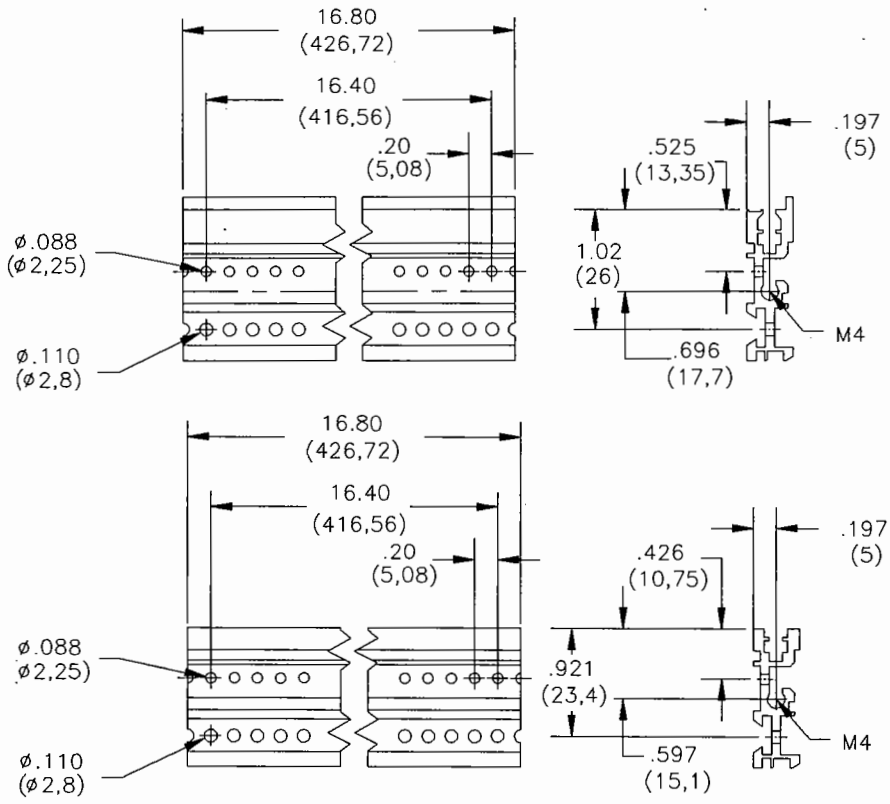
CENTER EXTRUSION FOR S-SERIES

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

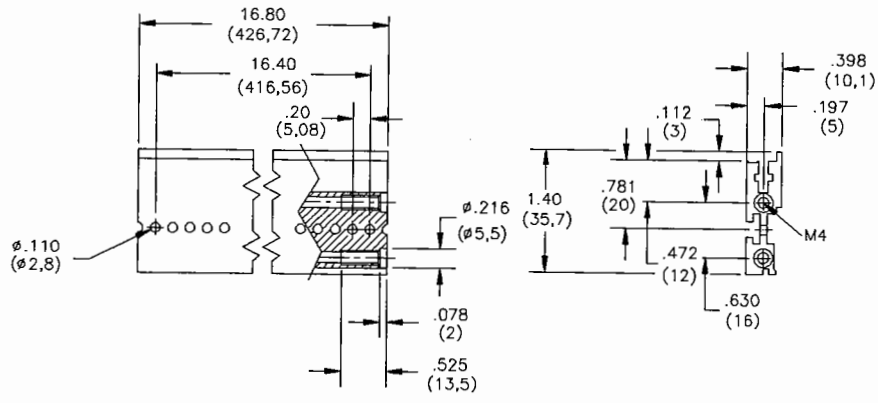
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

E-SERIES FRONT EXTRUSION - 84 H.P. (DETAIL)



REAR EXTRUSION - 84 H.P. (DETAIL)

S-SERIES FRONT EXTRUSION - 84 H.P. (DETAIL)



REAR EXTRUSION - 84 H.P. (DETAIL)

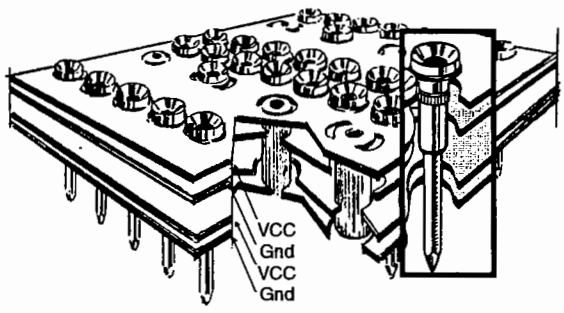
dataCon EXTRUSIONS

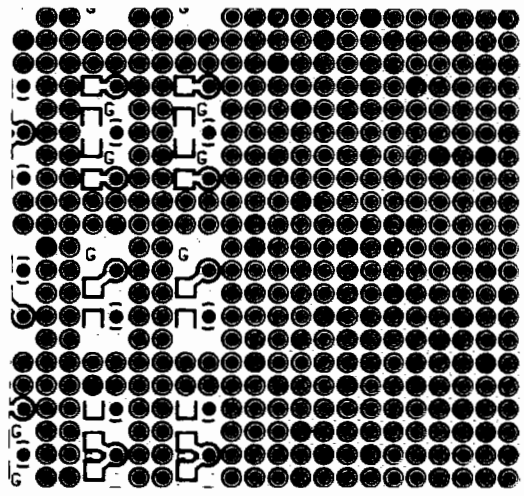
DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WIRE WRAP BOARDS





DataCon offers a wide selection of high performance multilayer wire wrap boards for 96/128-pin, DIN and 108-Pin connector packaging systems.

HIGH PERFORMANCE MULTILAYER WIRE WRAP BOARDS

DataCon's multilayer wire wrap boards are designed to meet the demands of today's high speed logic and dense circuit designs.

Our unique multilayer design provides maximum power distribution and distributed capacitance. The board construction consists of four layers of 2-ounce copper providing two layers for Vcc and two for Gnd. The power planes are located in alternating positions; Vcc/Gnd and Gnd/Vcc providing full access to Vcc on the component side and Gnd on the wire wrap side. The Vcc/Gnd power planes are spaced in very close proximity to each other. The two Vcc planes and the two Gnd planes are connected together respectively by a network of plated through holes. Each power plane features an interpin design; all pins are surrounded by the copper plane providing an unrestricted current flow throughout the board. This eliminates ground loops and minimizes current drops. A consistent power source is provided throughout the board. The interpin design allows use of solder washers to commit any pin toVcc or Gnd. The use of solder washers eliminates the need of wrapping in power and ground which create inductance loops when used.

dataCon's family of high performance multilayer boards are constructed of 0.125" or .093" thick laminate with symmetrical stack up to insure rigidity and flatness. Flexing and bowing are thus eliminated. Gold plated wire wrap pins, contacts and S.M.O.B.C. (solder mask over bare copper) are standard. The use of S.M.O.B.C. provides 2 ounces of copper on the outer layers, thus improving the overall performance of the board. A wide selection of board sizes and pin patterns are available. All boards are also available with optional 60/40 reflow finish.

dataCon is the industry's leader in wire wrap services. We can provide our boards wrapped to our customers with a single purchase order. This turnkey service adds convenience and saves time and expense.

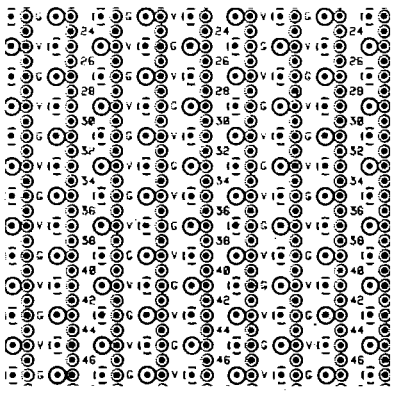
Delivery is dependent upon board availability, board size, complexity, number of wires and data provided.

For those applications requiring a unique design, dataCon offers the design and manufacturing expertise to build custom boards.

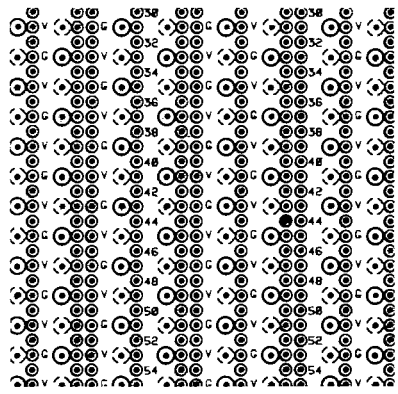
DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

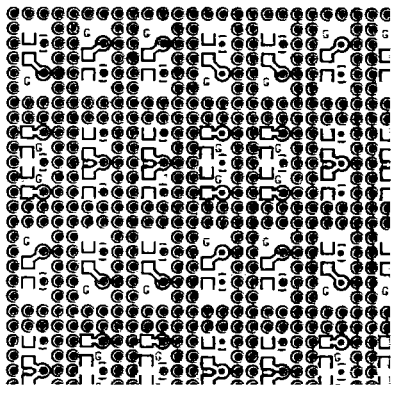
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



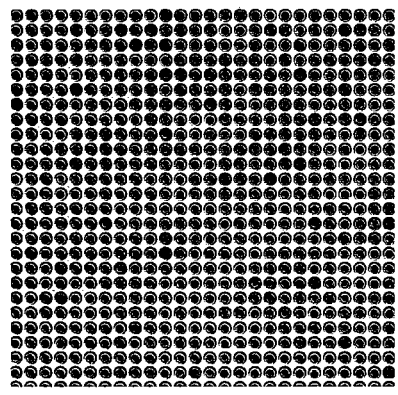
RDU PIN PATTERN



HDU PIN PATTERN



HVU PIN PATTERN



PGU PIN PATTERN

PIN PATTERNS

dataCon's high performance boards are available in a versatile range of pin patterns designed to accommodate any of todays high speed devices. Our available pin patterns are described below.

RDU

(Regular Density Universal)

- **A vertical pin pattern providing a flexible mounting format for 0.3", 0.6" and 0.9" devices. Spacing is (0.3"/0.3"/0.3")**

HDU

(High Density Universal)

- **A vertical pin pattern providing 30% higher density than the RDU. Accommodates 0.3" and 0.4" devices. Spacing is (0.3"/0.1"/0.3")**

HVU

(Horizontal Vertical Universal)

- **A combination of the vertical HDU pattern and a horizontal pattern to accommodate 0.6" devices. The vertical columns maximize placement of 0.3" and 0.4" devices. The horizontal columns (0.6"/0.1"/0.6") maximize placement of 0.6" devices.**

PGA

(Pin Grid Array)

- **A proportioned pattern of vertical columns of pins on a 0.1"spacing. Available on dataCon's HDU and HVU pin patterns. The PGA pins contain low insertion contacts to accept various PGA devices.**

PGU

(Pin Grid Universal)

- **A full grid of pin columns on 0.1" spacing. Provides the highest density and flexibility, utilizing low insertion contacts to accept any PGA or DIP device.The low insertion contacts allow easy insertion and extraction of high density devices.***

SUPER - U

(Super Universal)

- **An HDU pattern combined with multiple PGA patterns of 16 x 17 grid (0.1" spacing). This pattern allows maximum density of 0.3",0.6" and PGA devices.**

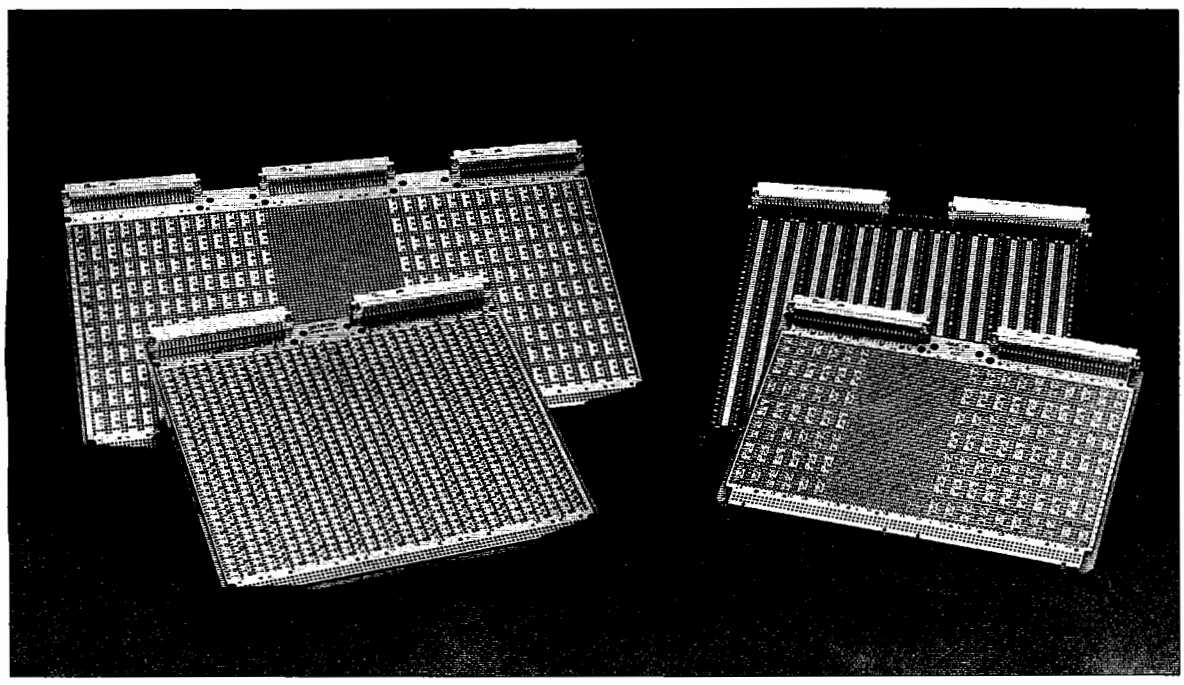
*NOTE: The PGU is a very dense pin pattern and therefore difficult to wrap and debug. Custom pin loading is recommended.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

96/128-PIN DIN W/W BOARDS



Datacon's high performance 96/128-pin wire wrap boards offer the board designer a wide choice of sizes, pin patterns and flexibility of prototype designs.

96/128-PIN DIN WIRE WRAP BOARDS

DataCon offers a complete line of 96-pin and 128-pin DIN wire wrap boards available in sizes from 3U X 160mm to 12U X 400mm with a capacity to accept up to 720 16-pin devices.

Our four layer, multilayer construction provides maximum power distribution and distributed capacitance. All power planes feature the interpin design and a network of plated through holes which connect the respective Vcc and Gnd planes together. These features provide unrestricted current flow thus eliminating ground loops and current drops.

A selection of board sizes and pin patterns are available to accommodate the I.C. density and format of any system design. Optional 0.1 of SMD capacitors are available for circuit designs using very high speed logic with short, sensitive rise and fall times.

All boards feature a three row (0.1" spacing) I/O area on the front providing maximum flexibility for mounting connectors and components.

FEATURES

- **Four layer multilayer construction with interpin planes**

Provide maximum power distribution.

- **VCC and GND planes fully accessible**

Allows use of solder washers to commit pins to planes.

- **VCC and GND pins are press fit**

Added reliability.

- **Pin Grid Array pins are low insertion force**

Easy insertion/extraction of PGA devices.

- **S.M.O.B.C.(solder mask over bare copper) finish**

Added performance, serviceability, and durability.

- **Optional Finish of 60/40 reflow**

- **Optional SMD capacitors for increased capacitance**

SERVICES

- **Board pin plots are available**

Aid in component layout and wiring.

- **dataPlace *PLUS*® is available for all dataCon boards**

Provides CAD/CAM component layout and net list generation.

Delivery is dependent upon board availability, board size, complexity, number of wires and data provided.

NOTE: 1U = 1.75" (44,4mm)
1H.P. = 0.20" (5,10mm) Horz.Pitch

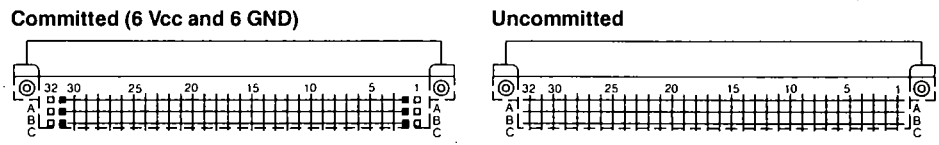
DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

96/128-PIN DIN W/W BOARDS

Connector Pin Committments



Legend: ■ Vcc (+5) □ GND

PART NUMBERING SCHEME
400 – SERIES WIRE WRAP BOARD

4 X X X X X X XX XX XX XX – XXX
(J1) (J2) (J3) (J4)

IMPORTANT
If you're using a low profile pin, the bus card thickness will be.093 and the number 4 in the part # scheme will change to an 8.

FINISH/SMD CAPS

0 = 60/40 Reflow, No SMD Caps
1 = 60/40 Reflow, With SMD Caps
2 = *S.M.O.B.C. no SMD Caps
3 = *S.M.O.B.C. With SMD Caps

*S.M.O.B.C.: Solder Mask Over Bare Copper. The Base Card Thickness Will Be .125

HEIGHT

A = 3U
B = 6U
C = 9U
D = 12U

DEPTH

C = 160 MM
D = 220 MM
E = 280 MM
F = 340 MM
G = 400 MM

PIN PATTERN

1 = RDU
2 = HDU
3 = HDU with PGA
4 = HVU
5 = HVU with PGA
6 = Super U
7 = Pin Grid Universal

*(H) = Horsham

Note: MO = Metric all pins uncommitted
M1 = Metric all pins committed

WIRE WRAP PIN

1 = 3L G/G
2 = 3L G/T
3 = 2L G/G
4 = 2L G/T
5 = 2L L.P. G/G (H)
6 = 2L L.P. G/T (H)
7 = 1L G/G
8 = Low Profile G/G
9 = Low Profile G/T
M0 = Metric all pins uncommitted
M1 = Metric committed
VCC = A2, B2, C2, A31, B31, C31
GND = A1, B1, C1, A32, B32, C32

HARDWARE

0 = None
1 = Ejectors
2 = 4 H.P. Front Panel
3 = 6 H.P. Front Panel
4 = 8 H.P. Front Panel
5 = Custom Front Panel in Kit
(See BOM for additional information and panel #)
6 = Caps
7 = Ejector/caps
8 =
9 =

POWER REQUIREMENTS

V1 = VME J1
V2 = VME J2
X1 = VXI J1
X2 = VXI J2
X3 = VXI J3
S1 = SUN J1
S2 = SUN J2
S3 = SUN J3
P1 = MBII P1
P2 = MBII P2
M0 = METRIC Uncommitted
M1 = METRIC Committed
F1 = FB + P1
F2 = FB + P2
F3 = FB + P3

CUSTOMS: 01 - 100

(Sequential No.)
128-Pin Din 4 Row

VCC	A2,B2,C2, A31,B31,C31
GND	A1,B1,C1, A32,B32,C32

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

96/128-PIN DIN W/W BOARDS

96/128 PIN WIRE WRAP BOARDS						
SIZE	BASE CARD NO.	PIN PATTERN	0.3", 16 PIN CAPACITY	0.6", 24 PIN CAPACITY	PGA CAPACITY	SMD CAPS
3U x 160mm	427AC	PGU	40	12	32 x 47	–
3U x 220mm	421AD	RDU	48	20	–	–
	422AD	HDU	72	5	–	–
	427AD	PGU	56	20	32 x 71	–
6U x 160mm	422BC	HDU	100	12	–	–
	424BC	HVU	100	42	–	–
	425BC	HVU w/PGA	110	42	26 x 49	88
	427BC	PGU	105	36	84 x 47	–
6U x 220mm	421BD	RDU	120	50	–	–
	422BD	HDU	160	20	–	–
	423BD	HDU w/PGA	168	25	21 x 71	–
	424BD	HVU	176	60	–	165
	425BD	HVU w/PGA	176	60	26 x 71	105
	427BD	PGU	147	60	84 x 71	–
6U x 280mm	425BE	HVU w/PGA	198	78	26 x 93	140
6U x 340mm	425BF	HVU w/PGA	273	102	84 x 119	121
9U x 220mm	421CD	RDU	184	75	–	–
	422CD	HDU	248	30	–	–
	423CD	HDU w/PGA	258	40	21 x 71	–
	424CD	HVU	280	100	–	255
	425CD	HVU w/PGA	280	100	34 x 71	180
9U x 280mm	424CE	HVU	350	130	–	–
	425CE	HVU w/PGA	350	130	34 x 94	156
9U x 340mm	425CF	HVU w/PGA	442	170	139 x 119	135
9U x 400mm	424CG	HVU	525	200	–	340
	425CG	HVU w/PGA	525	200	34 x 140	240
	426CG	SUPER-U	480	160	56 Grids 16 x 17	–
	427CG	PGU	510	190	136 x 137	–
12U x 400mm	426DG	SUPER-U	720	280	8 Grids 22 x 23	408

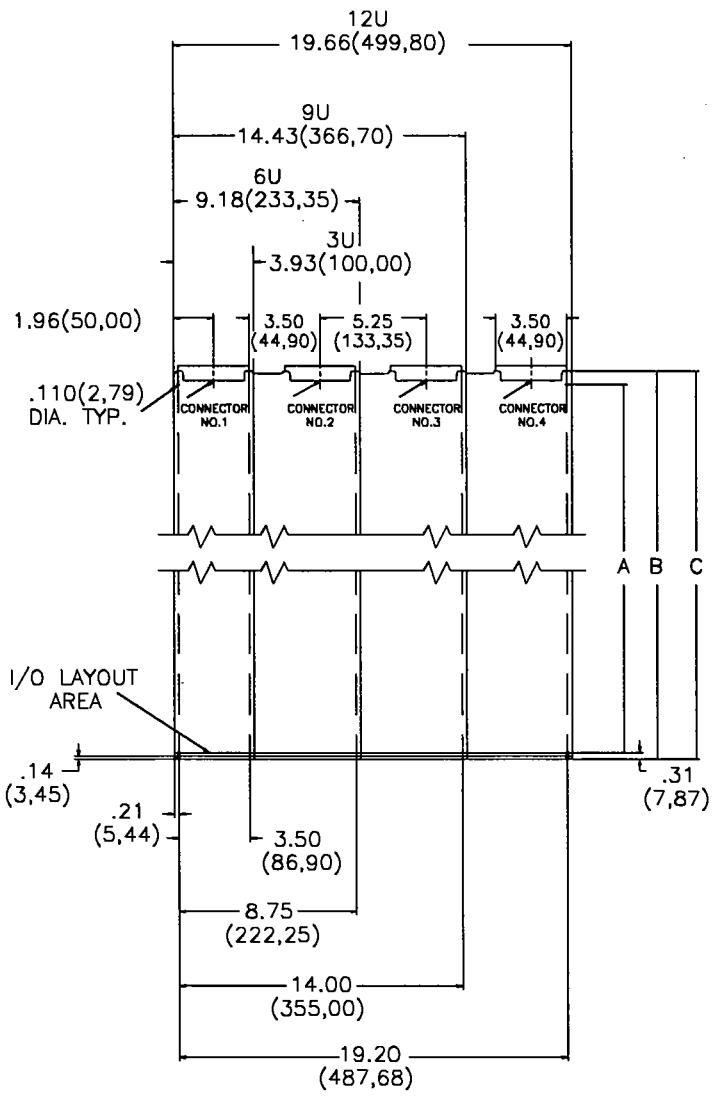
NOTE: 1U = 1.75" (44,4mm)
1 H.P. = 0.2" (5,10mm) Horizontal Pitch

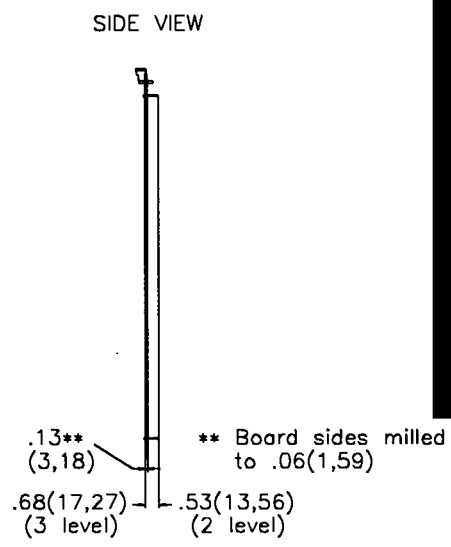
DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

96/128-PIN DIN W/W BOARDS

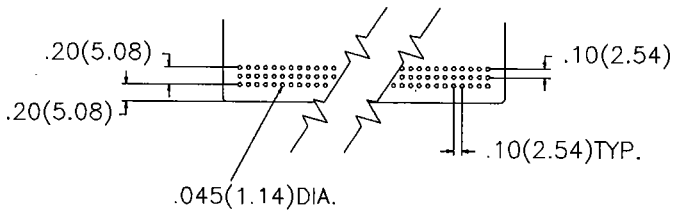




TYP. 96 Places for 3U
TYP. 255 Places for 6U
TYP. 411 Places for 9U
TYP. 573 Places for 12U

	A	B	C
	Pin to Pin	Conn.	Total
160mm	5.30 (134,62)	6.30 (160,00)	6.55 (166,37)
220mm	7.65 (194,31)	8.65 (220,00)	8.95 (227,20)
280mm	10.01 (254,31)	11.01 (280,00)	11.31 (287,30)
340mm	12.37 (314,20)	13.32 (338,38)	13.73 (348,74)
400mm	14.73 (374,31)	15.73 (400,00)	16.03 (407,20)

Input/Output Layout

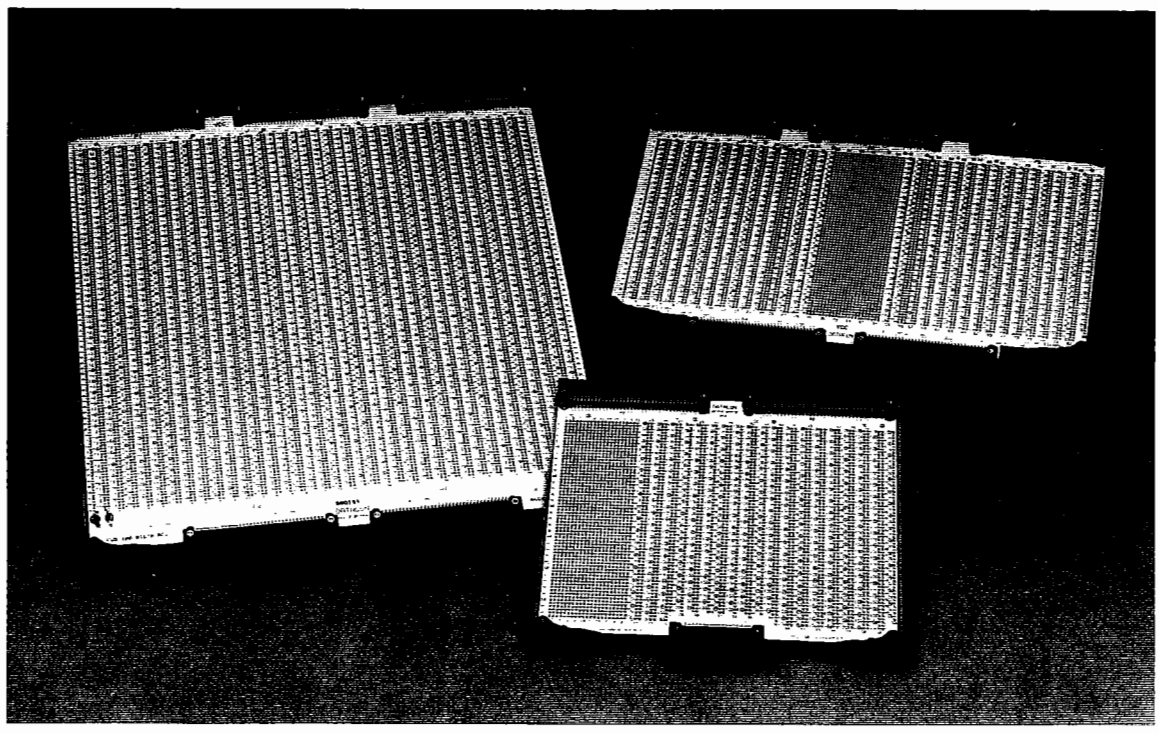


DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

108-PIN W/W BOARDS



DATACON'S 108-PIN WIRE WRAP BOARDS

dataCon offers a complete line of 108-pin wire wrap boards available in sizes from a DC323 Series to a DC347 Series capable of accepting up to 540 16-pin devices.

Our four-layer multilayer construction provides maximum power distribution and distributed capacitance. All power planes feature the interpin design and a network of plated through holes which connect the respective Vcc and Gnd planes together. These features provide unrestricted current flow thus eliminating ground loops and current drops.

A selection of board sizes and pin patterns are available to accommodate the I.C. density and format of any system design.

Optional 0.1 µf capacitors are available for circuit designs using high speed logic with short, sensitive rise and fall times.

The DC324 and DC346 Series feature one 108-pin I/O connector on the front of the boards. The DC326 and DC347 Series feature two 108-pin I/O connectors on the front of the boards. The DC323 Series boards do not have I/O connectors on the front.

FEATURES:

- **Four-layer multilayer construction with interpin planes**

Provides maximum Power distribution.

- **Vcc and Gnd planes are fully accessible**

Allowing use of solder washers to commit field pins to either plane.

- **Press-fit Vcc and Gnd pins fit**

Added reliability.

- **Pin Grid Array pins are low insertion force**

Easy insertion/extraction of PGA devices.

- **S.M.O.B.C. (Solder Mask Over Bare Copper) finish**

Added performance, durability and servicability.

- **Optional 60/40 finish.**

- **Optional SMD Capacitors**

Increased capacitance.

SERVICES:

- **Board pin plots available**

Aids in component layout and wiring.

- **dataPlace *PLUS*® available for all dataCon boards**

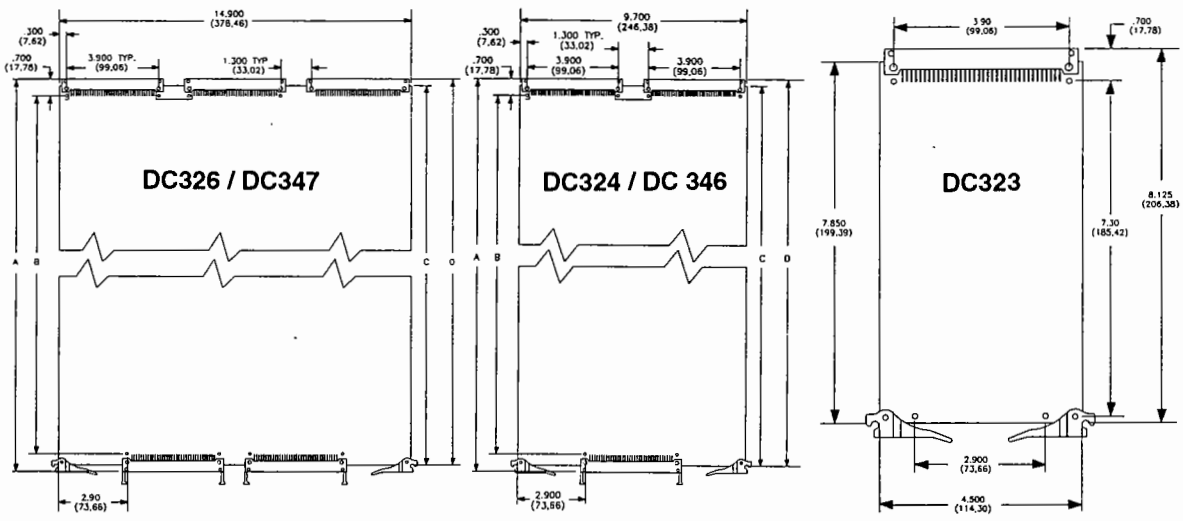
Provides CAD/CAM component layout and net/list generation.

Delivery is dependent upon board durability, board size, complexity, and number of wires and data provided.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



108-PIN SERIES WIRE WRAP BOARDS				
DIM	DC324	DC326	DC346	DC347
A	8.900	8.900	16.375	16.375
B	7.300	7.300	15.000	15.000
C	7.850	7.850	15.850	15.850
D	8.900	8.900	16.125	16.125

108-PIN SERIES COMMITTED I/O PINS			
POTENTIAL	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3
V1	C4,C5,C6,C7,C8	–	–
V2	C31,C32,C33,C34,C35	C2,C3,C4,C5,C6,C31, C32,C33,C34,C35	–
GND	A1,B1,C1,A36,B36,C36	A1,B1,C1,A36,B36,C36	–

HOW TO ORDER
DC300 SERIES 108-PIN WIRE WRAP BOARDS

DCXXX XXXX – XX – XX

BOARD SIZE
See Model Numbesr Below

PIN PATTERN
See Pin Patterns Below

LP = Base Card
Less pins

OPTIONS
01 = *S.M.O.B.C. w/3 Level G/G Pins
02 = *S.M.O.B.C. w/2 L G/G Pins
03 = 60/40 Reflow w/3 L G/G Pins
04 = 60/40 Reflow w/2 L G/G Pins
05 = *S.M.O.B.C. w/2 L Low Profile G/G Pins
06 = 60/40 Reflow w/2 L Low Profile G/G Pins

*** S.M.O.B.C.: Solder Mask Over Bare Copper**
NOTE: Change the "0" (Zero) to the number "3" (Three) to indicate optional SMD Caps

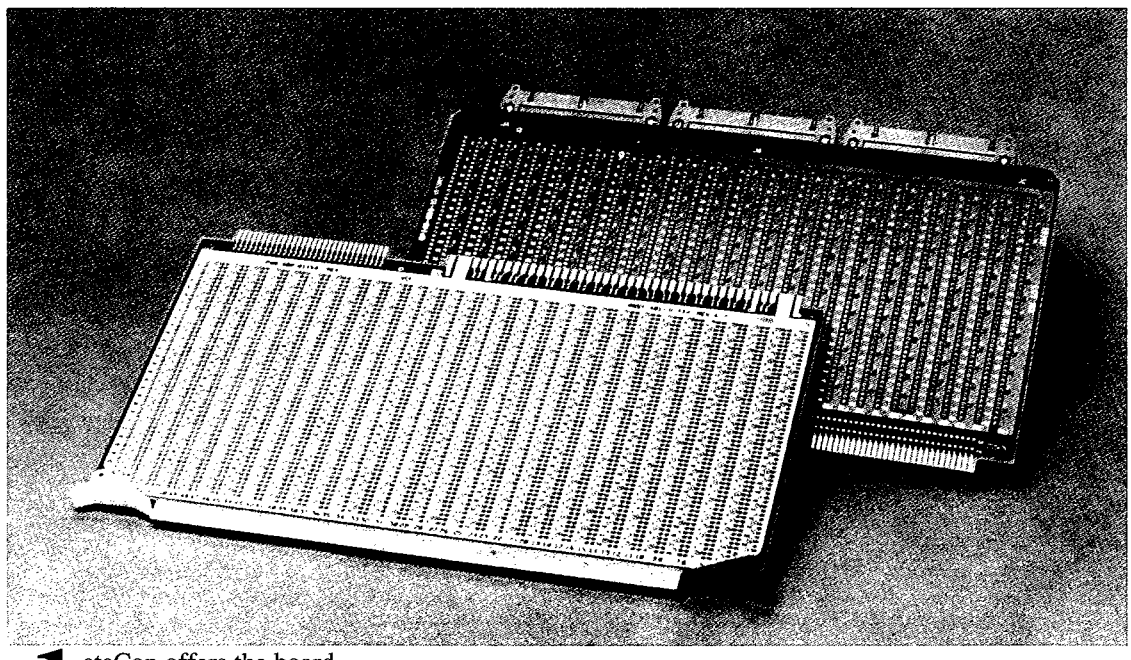
108-PIN SERIES WIRE WRAP BOARDS					
MODEL NO.	PIN PATTERN	0.3", 16 PIN CAPACITY	0.6", 24 PIN CAPACITY	PGA CAPACITY	SMD CAPS
DC3236090-01	RDU	49	20	–	–
DC3236086-01	HDU	70	5	–	–
DC3246090-01	RDU	112	48	–	–
DC3246086-01	HDU	140	16	–	–
DC3246088-01	HDU w/PGA	140	31	21 x 65	–
DC3246050-01	HVU	159	62	–	154
DC3246055-01	HVU w/PGA	159	62	26 x 64	98
DC3266090-01	RDU	175	78	–	–
DC3266086-01	HDU	224	25	–	–
DC3266088-01	HDU w/PGA	224	30	23 x 65	–
DC3266050-01	HVU	252	96	–	252
DC3266055-01	HVU w/PGA	252	98	34 x 64	156
DC3466090-01	RDU	208	100	–	–
DC3466086-01	HDU	300	40	–	–
DC3476090-01	RDU	375	160	–	–
DC3476086-01	HDU	480	50	–	–
DC3476088-01	HDU w/PGA	480	80	20 x 136	–
DC3476089-01	HDU w/3 PGA	480	110	65 x 136	–
DC3476050-01	HVU	540	220	–	360
DC3476055-01	HVU w/PGA	540	220	34 x 140	260
DC3476094-01	SUPER-U	480	190	56 Grids, 16 x 17	–

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

MULTIBUS I W/W BOARDS



dataCon offers the board designer high performance in a four layer multibus I wire wrap board.

DATACON'S MULTIBUS I WIRE WRAP BOARDS

dataCon's MBI high performance, four layer, multilayer boards are designed for today's high performance systems using high speed logic. Our 0.125" thick board construction provides maximum power distribution and distributed capacitance. All power planes feature two ounce copper and interpin design with a network of plated through holes which connect the respective Vcc and Gnd planes together. These features provide unrestricted current flow thus eliminating ground loops and current drops.

A choice of pin patterns are available. Optional 0.1 µf SMD capacitors are available for circuit designs using high speed logic with sensitive rise and fall times. The front of the boards feature maximum I/O flexibility with a three (0.1" center) row hole pattern.

FEATURES:

- **Designed in accordance with IEEE 796 spec.**
- **Four-layer multilayer construction with interpin planes**

Provides maximum power distribution.

- **The boards are 0.125" thick with the card edge connector and sides 0.062" thick**

Designed to fit standard guides.

- **VCC and GND planes fully accessible**

Allows use of solder washers.

- **The VCC and GND pins are press fit**

Added reliability.

- **PGA pins are low insertion force**

Easy insertion/extraction of PGA devices

- **SMOBC (Solder Mask Over Bare Copper) finish**

Added performance, serviceability and durability.

- **Optional 60/40 reflow finish.**
- **Optional SMD capacitors**
- **Increased capacitance.**

SERVICES:

- **Board pin plots available**

Aid in component layout and wiring.

- **dataPlace *PLUS*® available for all dataCon boards**

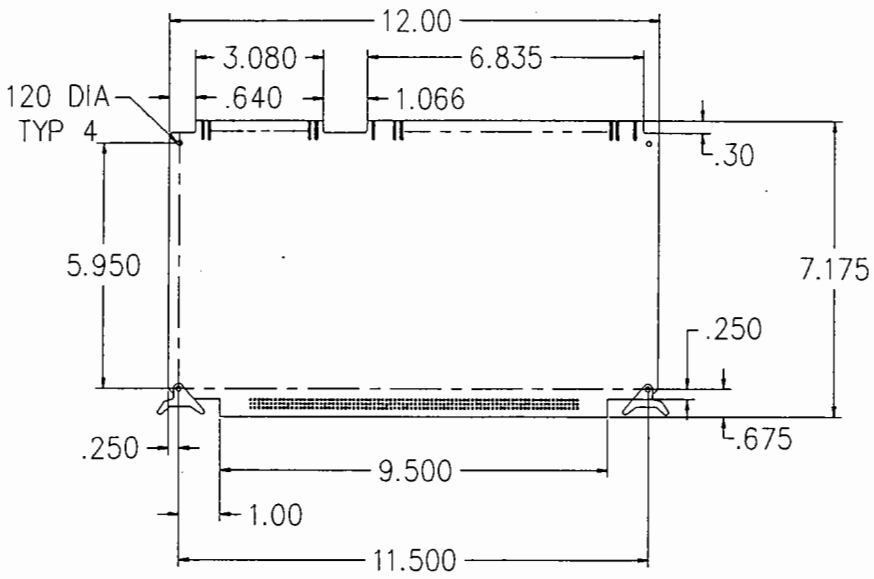
Provides CAD/CAM component layout and net list generation.

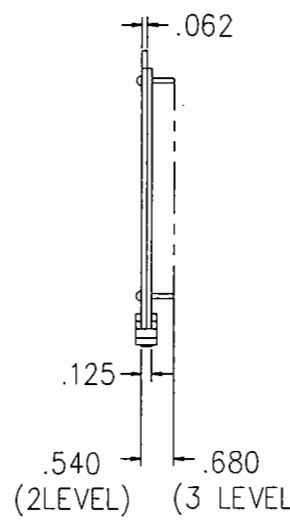
Delivery is dependent upon board availability, board size, complexity, number of wires and data provided.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com





ORDERING GUIDE
DC300 SERIES MULTIBUS I WIRE WRAP BOARDS

DCXXX XXXX – XX – XX

BOARD SIZE
See Model Numbesr Below

PIN PATTERN
See Pin Patterns Below

LP = Base Card
Less pins

OPTIONS
01 = *S.M.O.B.C. w/3 Level G/G Pins
02 = *S.M.O.B.C. w/2 L G/G Pins
03 = 60/40 Reflow w/3 L G/G Pins
04 = 60/40 Reflow w/2 L G/G Pins
05 = *S.M.O.B.C. w/2 L Low Profile G/G Pins
06 = 60/40 Reflow w/2 L Low Profile G/G Pins

*** S.M.O.B.C.: Solder Mask Over Bare Copper**
NOTE: Change the "0" (Zero) to the number "3" (Three) to indicate optional SMD Caps

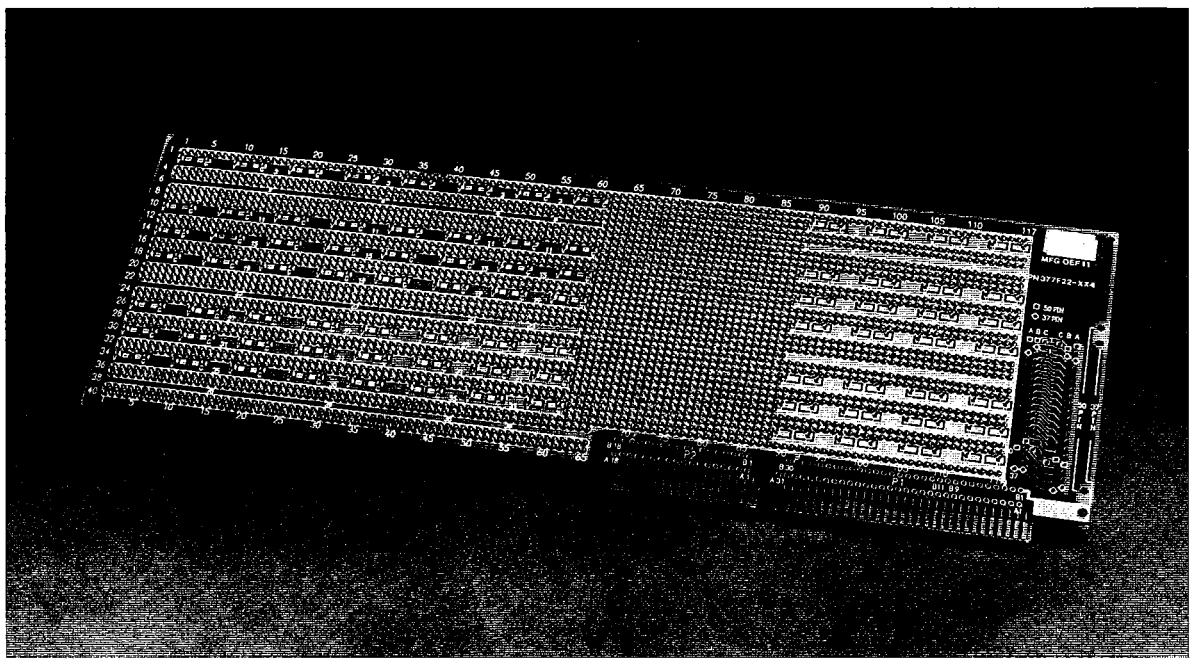
MULTIBUS WIRE WRAP BOARDS					
MODEL NO.	PIN PATTERN	0.3", 24 Pin DEVICES	0.6",24 Pin DEVICES	PGA CAPACITY	SMD CAPS
DC3156086-01	HDU	150	20	–	–
DC3156055-01	HVU w/PGA	174	71	45 x 26	136

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

IBMPC AT W/W BOARD



dataCon offers the board designer high performance in a four layer IBM PC-AT wire wrap board.

DATACON'S IBM PC-AT WIRE WRAP BOARD

Our IBM AT board features four l ayer multilayer construction providing maximum power distribution and distributed capacitance. The board is 0.062" thick for standard mounting requirements. A standard rear mounting bracket is included. The I/O pin out accepts optional connectors. Optional SMD capacitors are available.

FEATURES:

- **Four-layer multilayer design**

Provides maximum power distribution.

- **VCC and GND planes are fully accessible**

Allows use of solder washers.

- **Press-fit VCC and GND pins**

Added reliability.

- **Low insertion PGA pins.**
- **SMOBC finish**

Added performance, survivability and durability.

- **Optional 60/40 reflow finish.**
- **Optional SMD capacitors**

Increased capacitance

SERVICES:

- **Board pin plots available**

Aid in component layout and wiring.

- **dataPlace *PLUS* ® available for all dataCon boards**

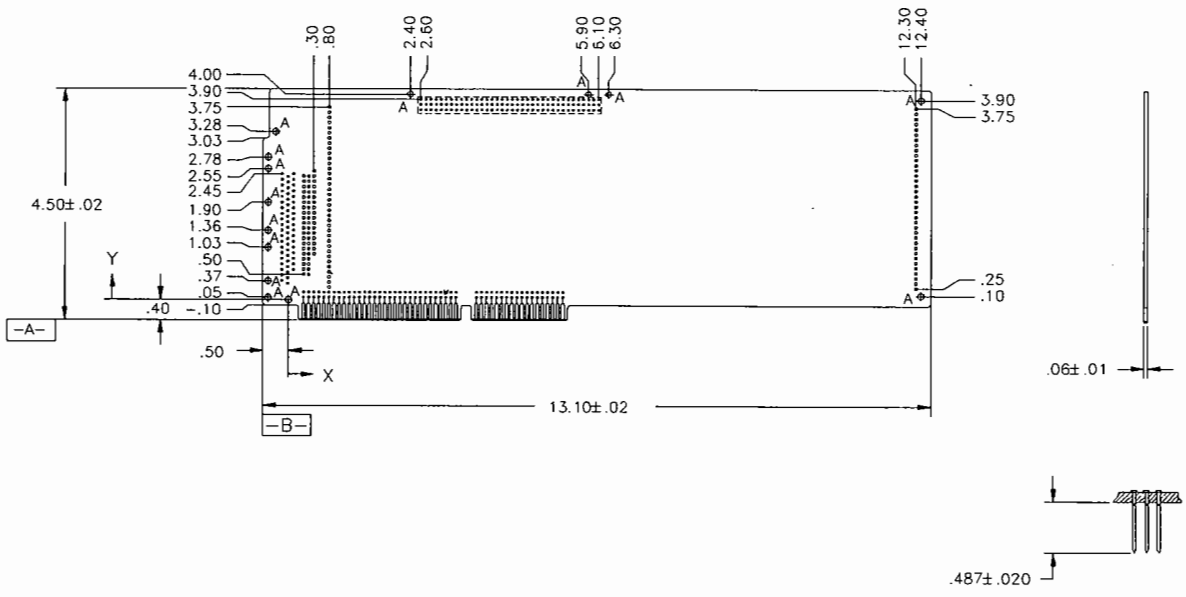
Provides CAD/CAM component layout and net list generation.

Delivery is dependent upon board availability, board size, complexity, number of wires and data provided.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



IBMPC AT W/W BOARD

ORDERING GUIDE
400 SERIES IBM PC-AT WIRE WRAP BOARDS

4 X X XX X X XXX – XX

SERIES NO.

4 = 400 SERIES WW Boards

FINISH/SMD CAPS

0 = 60/40 Reflow, w/o SMD Caps
1 = 60/40 Reflow, w/SMD Caps
2 = *S.M.O.B.C.,w/o SMD Caps
3 = *S.M.O.B.C.,w/ SMD Caps

*S.M.O.B.C.:
Soldermask over Bare Copper.
The Base Card Thickness
Will Be .125

PIN PATTERN

1 = RDU
2 = HDU
3 = HDU w/PGA
4 = HVU
5 = HVU w/PGA
6 = SUPER U
7 = Pin Grid Universal

BOARD SIZE

ST = Standard Depth
EX = Extended Depth

W/W PINS

1 = 3LG/G
2 = 3LG/T
3 = 2LG/G
4 = 2LG/T
5 = 2L-LP G/G (H)
6 = 2L-LP G/T (H)
7 = 1LG/G
8 = Low Profile G/G
9 = Low Profile G/T

HARDWARE

0 = None
1 = Rear Mounting Bracket
2 = Ejectors

POWER COMMITMENTS

No. Layers (Full Size, 10.10" LG)
ME1 = MB1, 2-Sided
MB4 = MB1, 4-Layer
AT1 = IBM/AT, 2-sided
AT4 = IBM/AT, 4-Layer
XT1 = IBM/XT, 2-Sided
XT4 = IBM/XT, 4-Layer
EI = EISA

CUSTOMS
(00-99)

IBM PC-AT WIRE WRAP BOARDS					
BASE CARD NO.	PIN PATTERN	0.3", 24 Pin DEVICES	0.6",24 Pin DEVICES	PGA CAPACITY	SMD CAPS
425ST	HVU w/PGA	104	32	23 X 23	84

* (H) = Horsham

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

ADDITIONAL W/W BOARDS

dataCon offers many wire wrap boards compatable with the older, less popular bus structures.

OTHER INDUSTRY STANDARDS

Should you have a requirement for a wirewrap board compatible with one of the older bus structures or industry standard wire wrap systems, please call us. We still support those today, but with the decrease in demand, data sheets are not included in this publication.We will be happy to furnish a data sheet from our previous catalog and a pin plot if required.

TWO PIECE CONNECTOR SYSTEMS

■ 96 PIN VME SERIES

Available in 6U x 160mm to 9U x 280mm. Features: 2-layer construction; universal (0.3"/0.3"/0.1") pin pattern; SMOBC finish.

■ 108 PIN SERIES

Available in DC323 to DC347 sizes. Features: 2-layer construction; optional 16-pin, 24-pin, RDU and HDU pin patterns. 60/40 reflow finish. Subracks, Backplanes, and Extenders are available.

■ 120 PIN SERIES

PS120 Series features: 2-layer construction; optional 16-Pin, 24-Pin and universal pin patterns; SMOBC finish. Subracks, Backplanes and Extenders are available.

CARD EDGE SYSTEMS

■ MULTIBUS I

Available in EPS272 and EP146 Series features: 2-Sided construction; Universal pin pattern (38 columns of 44 pins); P1 is 86 gold fingers and P2 is 60 gold fingers. SMOBC finish. Optional I/O connectors; (2) 50-pin and 26-pin card edge fingers or headers.

■ IBM PC-AT/XT

Features: 2-Sided construction; A choice of standard density with optional PGA section and high density; gold plate card edge fingers; SMOBC finish; options include SMD capacitors; I/O connector, face plate and level of wire wrap pin.

■ SCH 120 SERIES

Features: 3-layer schottky construction; optional pin patterns; SMOBC finish. 120 gold finger contacts.

■ ECL 120 SERIES

Features: 3-layer ECL construction; 10K ECL pin pattern; SMOBC finish. 120 gold finger contacts.

■ EP 120 SERIES

Features: 2-layer construction; optional pin patterns; SMOBC finish; 120 gold finger contacts. Subracks, Backplanes and Extenders are available.

■ ECM / ECMD-70 and -140 SERIES

Features: 2-layer construction; optional pin patterns; SMOBC finish. Single height with 70 gold fingers and dual height with 140 gold fingers; both are available in single depth or double depth. Subracks, Backplanes and Extenders are available.

■ ECM 72 "MINI SERIES"

Features: 2-sided construction; optional pin patterns; SMOBC finish; 72 gold finger contacts.

■ ECP 72 SERIES

Features: 2-sided construction; optional pin patterns; SMOBC finish; 72 gold finger contacts.

■ MECM 72 SERIES

Metric 100mm x 160mm features: 2-sided construction, optional pin patterns; SMOBC finish; 72 gold finger contacts.

■ MODULAR ECL SERIES

For planar applications. Features: 3-layer construction; ECL/TTL pin pattern; SMOBC finish; feed thru pin I/O on two sides.

■ MODULAR SCH13 AND SCH23 SERIES

For planar applications. Features 3-layer construction; Universal pin pattern for high speed schottky designs; SMOBC finish; Feed thru pin I/O on two sides.

■ MODULAR NCP13 / NCS23 / NCS84 SERIES

For planar applications. Features 2-sided construction; universal pin pattern; SMOBC finish; I/O on one side accepts sockets.

Note: All modular series boards are available in sizes of one to eight sections with groups labeled A thru H.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

dataCon Listing of Additional Industry Standard Wire Wrap Boards for Card Edge Sytems

ADDITIONAL W/W BOARDS

MULTIBUS 1

DC-3153086
DC-3156086
EPS272-038-15
EP146-038-15

SCH120 SERIES

SCH120-060-13
SCH120-020-13

ECL120 SERIES

ECL120-060-130
ECL120-020-15
ECL120-060-140

EP120 SERIES

EP120-060-11
EP120-060-12
EP120-060-13
EP120-060-14
EP120-060-15

ECM SERIES

ECM140-030-15M
ECM140-030-15S
ECM140-054-14
ECM70-024-14
ECM70-14-15M
ECM70-EC
ECM72-018-24
ECM72-024-24
ECM72-12-15
ECM72-BP
ECM72-EC
ECMD140-030-15M
ECMD140-126-14
ECMD140-BP
ECMD140-EC
ECMD70-014-15M
ECMD70-014-15S
ECMD70-EC

ECP72-SERIES

ECP72-040-12
ECP72-040-14
ECP72-040-15

MECM72 SERIES

MECM72-025
MECM72-012

MODULAR ECL SERIES

ECL121-180
ECL121-240

MODULAR SCH SERIES

SCH13-030
SCH13-060
SCH13-090
SCH13-120
SCH13-150
SCH13-180
SCH13-009
SCH13-018
SCH13-027
SCH13-036
SCH13-045
SCH13-054
SCH23-030
SCH23-060
SCH23-090
SCH23-120
SCH23-150
SCH23-180

MODULAR NC SERIES

NCP13-009-15
NCP13-018-15
NCP13-030-14
NCP13-054-15
NCP13-054/58-15
NCP13-072-15
NCP13-150-14
NCP13-180-13
NCP13-180-14
NCP13-240-13
NCP13-240-14
NCP40-009-15
NCP40-018-15
NCP40-027-15
NCP40-036-15
NCP40-054-15
NCP40-060-14
NCP40-090-14
NCP40-120-14
NCP40-180-14
NCS23-054-15
NCS23-060-14
NCS23-120-14
NCS23-120-14/215
NCS23-150-14
NCS23-27/58-15
NCS84-018-15
NCS84-027-15
NCS84-027/58-15
NCS84-030-14
NCS84-054-15
NCS84-060-14/215
NCS84-072-15
NCS84-090-14

108-PIN SERIES TWO SIDED BOARDS

DC-3224806
DC-3234806
DC-3234886
DC-3234890
DC-3243090
DC-3244886

120-PIN SERIES

EP-BP
EP120-020-15
EP120-020-15-06
EP120-020/80-15
EP120-060-13
EP120-060-14
EP120-060-14-25
EP120-060-14-26
EP120TP-20/49-15
EP120TP-60-14

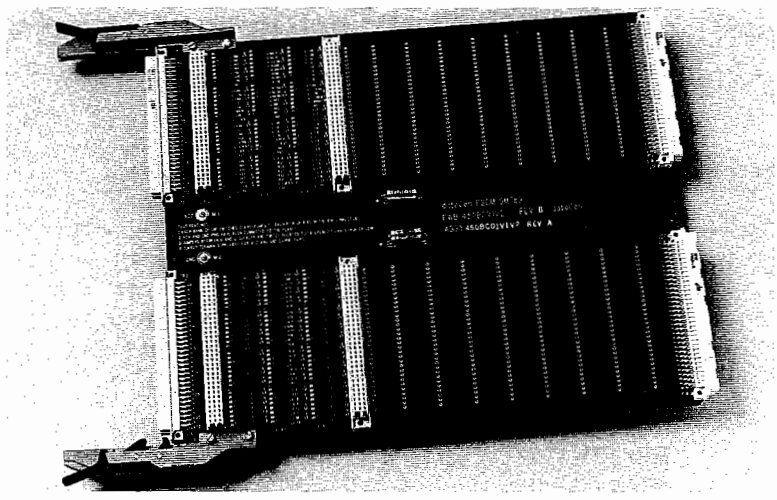
NOTE: Base Card Numbers are used in the listing. Please contact the factory for complete part numbers and data sheets. We maintain a complete cross-reference listing of our competitors' part numbers.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

96/128-PIN DIN EXTENDER BOARDS



DATACON'S 96-PIN and 128-PIN DIN EXTENDER BOARD

dataCon's 450 and 480 series extenders are designed for use with today's high performance VME, SUN, VXI and MBII systems.

The design features six-layer all press-fit construction. Each layer is 2 ounce copper. The asymmetrical structure and transmission line design yield maximum distributed capacitance, controlled impedance, power distribution and optimum signal integrity. Our unique design minimizes cross talk and propagational delay. Features include DIP switches which provide for isolation and analysis of all signal lines. 96-pin and 128-pin I/O connectors provide means to terminate the extender when necessary or they may be used as test points for analysis.

FEATURES

- **Selection of sizes from 3U x 160mm to 12U x 400mm.**
- **Choice of bus structures, compatible with VME, SUN, VXI, MBII and Metric.**
- **Six-layer, multilayer construction**

Minimizes cross-talk and ringing.

- **DIP switches on extender**

For isolation and analysis of all signal lines

- **Headers**

Provide means of termination and interface to analysers.

96- and 128-Pin DIN Extender Boards

Size	Dimension		
	A	B	C
3U X 160mm	11.22	3.93	8.73
3U X 220mm	13.58	3.93	
3U X 280mm	15.94	3.93	11.06
3U X 340mm	18.31	3.93	13.41
3U X 400mm	20.67	3.93	
6U X 160mm	11.22	9.18	8.73
6U X 220mm	13.58	9.18	
6U X 280mm	15.94	9.18	11.06
6U X 340mm	18.31	9.18	13.41
6U X 400mm	20.67	9.18	
9U X 160mm	11.22	14.43	8.73
9U X 220mm	13.58	14.43	
9U X 280mm	15.94	1.43	11.06
9U X 340mm	18.31	1.43	13.41
9U X 400mm	20.67	1.43	
12U X 160mm	11.22	1.68	8.73
12U X 220mm	13.58	1.68	
12U X 280mm	15.94	1.68	11.06
12U X 340mm	18.31	1.68	13.41
12U X 400mm	20.67	19.68	

ORDERING GUIDE 4XX SERIES 96- and 128-PIN DIN EXTENDER BOARD

4XX - X X - XX - XX XX XX XX - XX

(P1) (P2) (P3) (P4)

SERIES NO.
450 = 96-Pin DIN EXTENDER
480 = 128-Pin DIN EXTENDER

HEIGHT
A = 3U, B = 6U, C = 9U, D = 12U

DEPTH
C = 160mm, D = 220mm, E = 280mm
F = 340mm, G = 400mm

HARDWARE
00 = No Handle,
01 = Handles

POWER COMMITMENTS

V1 = VMEJ1
V2 = VMEJ2
X1 = VXIJ1
X2 = VXIJ2
X3 = VXIJ3
S1 = SUNJ1
S2 = SUNJ2
S3 = SUNJ3
P1 = MBII P1
P2 = MBII P2
M0 = METRIC Uncommitted
M1 = METRIC Committed
F1 = FB 6U 64 Bit
F2 = FB 6U 128 Bit
F3 = FB 9U 256 Bit

CUSTOM

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

DATACON'S 96-PIN DIN DEPTH EXTENDER BOARDS

dataCon's 455 series extenders are designed for use with today's high performance VME, SUN, VXI and MBII systems.

The design features an economical six-layer, multilayer all press-fit construction. All layers are two-ounce copper. The asymmetrical structure and transmission line design yield maximum distributed capacitance, controlled impedance, power distribution and optimum signal integrity.

FEATURES

- **Selection of sizes from 3U x 160mm to 12U x 400mm.**
- **Choice of bus structures, compatible with VME, SUN, VXI, MBII and Metric.**
- **Six-layer, multilayer construction**

Minimizes cross-talk and ringing.

ORDER GUIDE
455 SERIES 96-PIN DIN EXTENDER BOARD

455 — X X — X X — XX XX XX XX
J1 J2 J3 J4

SERIES NO.
455 = 96-Pin DIN Depth EXTENDER

HEIGHT
A = 3U, B = 6U,
C = 9U, D = 12U

DEPTH
C = 160 MM, D = 220 MM,
E = 280 MM, F = 340 MM,
G = 400 MM, H = 60 MM,
J = 120 MM, K = 180 MM

POWER REQUIREMENTS

V1 = VME J1	P2 = MBII P2
V2 = VME J2	M0 = METRIC Uncommitted
X1 = VXI J1	M1 = METRIC Committed
X2 = VXI J2	F1 = FB + 6U 64-Bit
X3 = VXI J3	F2 = FB + 6U 128-Bit
S1 = SUN J1	F3 = FB + 9U 256-Bit
S2 = SUN J2	
S3 = SUN J3	
P1 = MBII P1	

HARDWARE
00 = No Handle, 01 = Handles

DATACON'S 96-PIN DIN TEST BOARDS

dataCon's System Test Boards provide an effective tool to verify chassis wiring and the ability of the power supply to deliver specified power to system boards through the backplane.

Two styles of Test Boards are offered, current reading and voltage reading (the switching power supplies normally require loading the main output (usually +5V) to at least 10% of rated full load for that output, in order to be within operating range to meet regulation specifications.)

The VME specification designates only certain pins in the 96-pin DIN connectors to carry the DC voltages and Gnd return. The 1 amp (1A) per pin rating on the connectors sets a safe limit on the power that can be dissipated by each board.

FEATURES

- **Selection of sizes from 3U x 160mm to 12U x 400mm.**
- **Choice of bus structures, compatible with VME, SUN, VXI, MBII and Metric.**
- **Four-layer, multilayer construction with interpin planes**

Provide maximum power distribution.

VOLTAGE READINGS

4XX — X X — X X — XX XX XX XX - XX
J1 J2 J3 J4

SERIES No.
490 = Voltage Reading
495 = Current Reading

HEIGHT
A = 3U
B = 6U
C = 9U
D = 12U

DEPTH
C = 160 MM
D = 220 MM
E = 280 MM
F = 340 MM
G = 400 MM

LOAD
5% = 05
8.5% = 08
10% = 10

POWER REQUIREMENTS

V1 = VME J1	P1 = MBII P1
V2 = VME J2	P2 = MBII P2
X1 = VXI J1	M0 = METRIC Uncommitted
X2 = VXI J2	M1 = METRIC Committed
X3 = VXI J3	F1 = FB + 6U 64-Bit
S1 = SUN J1	F2 = FB + 6U 128-Bit
S2 = SUN J2	F3 = FB + 9U 256-Bit
S3 = SUN J3	

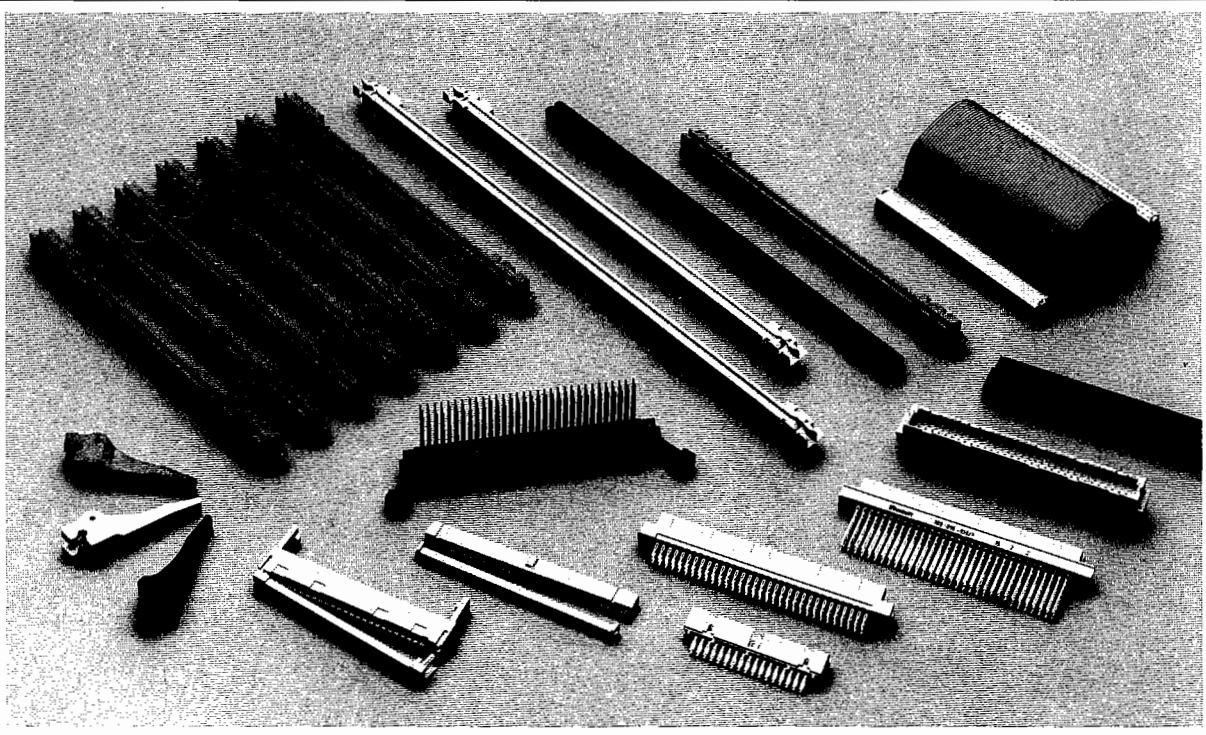
CUSTOMS
01 = +5V ± 12V
02 = -5.2V
03 = ± 24V - 5.2V
04 = +5V
05 = +5V ±15V
06 =
07 =

96-PIN DIN DEPTH EXTENDER AND TEST EXTENDER BOARDS

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



WIREWRAP BOARD ACCESSORIES
BOARD EJECTORS AND WIRE WRAP PINS

500 SERIES WIRE WRAP PINS ORDERING GUIDE

500 X X X X

WIRE WRAP PIN

PANEL
A = 0.062"
B = 0.093"
C = 0.125"

TYPE
0 = 1 BARB
1 = 2 BARB
2 = KNURL

PIN
F = Field clip
G = Grid Array clip
V = VCC/ground clip

LEVEL
1 = 3L G/G
2 = 3L G/T
3 = 2LG/G
4 = 2LG/T
5 = 2L•L.P. G/G (H)
6 = 2L•L.P. G/G (H)
7 = 1L G/G
8 = Low Profile G/G
9 = Low Profile G/T

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

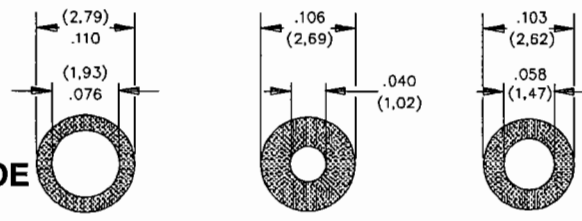
WIRE WRAP PINS			
DESCRIPTION	PART NUMBER		
	FOR 0.125" PANEL	FOR 0.062" PANEL	FOR 0.093" LOW PROFILE PANEL
Field Pin 2-L Gold	500C321	500A321	500B341
Field Pin 3-L Gold	500C331	500A331	
Grid Array 2-L Gold	500C321	500A321	500B341
Grid Array 3-L Gold	500C331	500A331	
VCC/GND 2-L Gold	500C221	500A221	500B241
VCC/GND 3-L Gold	500C231	500A231	

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WIRE WRAP BOARD ACCESSORIES SOLDER WASHERS

Solder Washers are used to commit wire wrap pins to the Vcc and Gnd planes. The use of solder washers eliminates inductance loops created by wrapping power commitments to devices. The components provide a direct path to the power source thus improving power distribution and performance.

Component Side	Connector	Wire Wrap Side



SOLDER WASHERS ORDERING GUIDE

501 X X XX - K

SOLDER WASHER

ALLOY
C = Copper Alloy

COATING
F = Flux Coating

SIZE
01 = Comp. - VCC
02 = W.W. - GND
03 = Conn.

KIT

SOLDER WASHER DIMENSIONS

SOLDER WASHER APPLICATOR		
502	Solder Washer Appl	
5021000	Solder Washer Appl	VCC
5021001	Solder Washer Appl	GND
5021002	Solder Washer Appl	KIT
5021003	Pad Removal Tool	
5021004	Solder Iron Tip	PGA's

WIRE WRAP BOARD ACCESSORIES CONNECTORS

SERIES CONNECTOR ORDERING GUIDE

51X X X X X

CONNECTOR
96-PIN = 510
108-PIN = 512
128-PIN = 511

GENDER
M = Male
F = Female

CONFIGURATION
1 = Right Angle
2 = Straight

PIN
0 = PC Tail
1 = 1-1/2-L Wrap
2 = 2 - L Wrap
3 = 3 - L Wrap
4 = 2 - L Low Profile

PLATE
1 = G/G
2 = G/T

96-PIN AND 128-PIN

3 - L G/G R/A Male
2 - L G/G R/A Male
P.C. Tail Tin R/A Male
3 - L G/G Receptacle Female
2 - L G/G Receptacle Female
P.C.Tail G/G Receptacle Female
P.C. Tail Tin Receptacle Female

513F230 96-PIN, DIN, PRESS-ON SHROUD

108-PIN

2 - L G/G R/A Male
3 - L G/G R/A Male
2 - L Tin R/A Male
3 - L Tin R/A Male
P.C. Tail Tin R/A Male
3 - L Gold Receptacle Female
3 - L Tin Receptacle Female

515 SERIES POWER BUG LUG ORDERING GUIDE

515 X XXX – X

POWER BUG
10-PIN, PRESS FIT

INSULATION
0 = No Insulation
1 = Insulation

NO. IN SEQUENCE
001 = No Insulation
002 = With Insulation
003 = Dual Spade Terminal Kit
004 = Jumper Clip, 2 Pos.

KIT

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

W/W BOARD ACCESSORIES

EJECTOR ORDERING GUIDE

520 X X X X – K

EJECTOR — KIT

DESCRIPTION
METRIC 0.125" Panel (dataCon)
METRIC 0.093" Panel (dataCon)
108-Pin 0.0125" Panel (dataCon)
108-Pin 0.062" Panel (dataCon)
EURO Front panel Ejector (AEG) 0.062" Panel
Euro Front Panel Ejector (AEG) 0.125" Panel

CARD GUIDES
METRIC 0.062" Panel, 160 mm
METRIC 0.062" Panel, 220 mm
METRIC 0.062" Panel, 280 mm
METRIC 0.062" Panel, 340 mm
METRIC 0.062" Panel, 400 mm
METRIC 0.093" Panel, 160 mm
METRIC 0.093" Panel, 220 mm
METRIC 0.093" Panel, 280 mm
METRIC 0.093" Panel, 340 mm
METRIC 0.093" Panel, 400 mm

PANEL SIZE
06 = 0.062"
09 = 0.093"
12 = 0.125"

DESCRIPTION
MA = EURO Front Panel
ME = dataCon Metric
MU = dataCon 108
HM = Hard Metric

SOLDER WASHERS/TOOLS

530 X X X X – K

KIT

DESCRIPTION
Solder Washer Component Side (Vcc)
Solder Washer Wire Wrap Side (Gnd)
Solder Washer Applicator Component Side (Vcc)
Solder Washer Applicator Wire Wrap Side (Gnd)

SOLDER WASHER KIT
Soldering Iron With Tip
Soldering Iron With PGA Tip
Soldering Iron PGA Tip (Only)
Pad Removal Tool

Backplane Accessories	
Description	**Part Number**
Receptacle (Female) Straight, 96-Pin 3 Wrap/Gold – Press-fit	510F231
Receptacle (Female) Straight, 96-Pin, P.C. Tail Press-fit – Tin Plate	510F203
Pin Burb/Field 3L G/G	5001G1
Power Lug Kit, 10-Pin, Press-fit	5150001
Power Lug Kit w/insulator, 10-Pin, Press-fit	5151002
Dual Spade Terminal Kit (includes mounting hardware)	5150003
96-Pin Shroud, 3 Wrap, Press-On	513F230
Jumper Clip, 2 Position, Berg Type	5150004

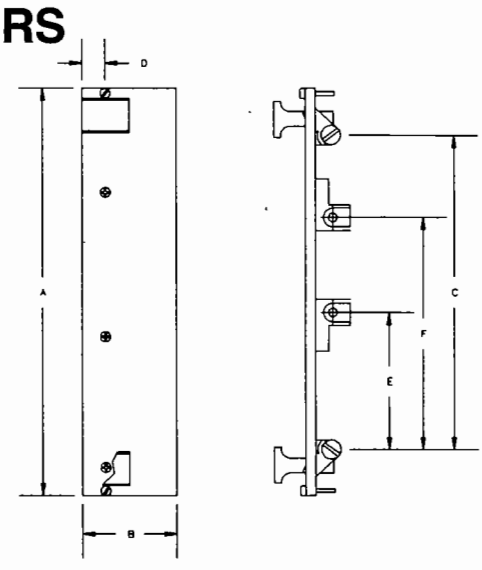
DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FRONT PANELS WITH EJECTORS

dataCon's Front Panels with Ejectors provide complete ejector functions and an aestetic finish. The front panels comply with IEC and IEEE specifications for EURO boards. The panels may be used with printed circuit or wire wrap boards. The front panel kits come fully assembled. They are available in 3U, 6U and 9U sizes. The kits may be selected in panel widths of 3, 4, 5, 6, 7 and 8 HP pitches. for custom front panels, please consult the factory.



Front Panel Kits for Printed Circuit Board Applications								
Panel Height	Part Number	Pitch (HP)	A	B	C	D	E	F
3U	5400303	3	5.05	.58	3.50	.29		
3U	5400304	4	5.05	.78	3.50	.29		
3U	5400306	6	5.05	1.18	3.50	.80		
3U	5400308	8	5.05	1.58	3.50	1.10		
6U	5400603	3	10.30	.58	8.75	.29	5.25	
6U	5400604	4	10.30	.78	8.75	.29	5.25	
6U	5400605	5	10.30	.98	8.75	.29	5.25	
6U	5400606	6	10.30	1.18	8.75	.29	5.25	
6U	5400607	7	10.30	1.38	8.75	.80	5.25	
6U	5400608	8	10.30	1.58	8.75	1.10	5.25	
9U	5400903	3	15.55	.58	14.00	.29	5.25	8.75
9U	*5400904-S	4	15.58	.79	14.00	.89	5.25	5.25
9U	5400904	4	15.55	.78	14.00	.29	5.25	8.75
9U	5400905	5	15.55	.98	14.00	.29	5.25	8.75
9U	5400906	6	15.55	1.18	14.00	.29	5.25	8.75
9U	5400907	7	15.55	1.38	14.00	.80	5.25	8.75
9U	5400908	8	15.55	1.58	14.00	.490	3.5	10.5

*FOR USE WITH SUN SUBRACKS

FRONT PANELS WITH EJECTORS ORDERING GUIDE

540 XX XX - XX

FRONT PANEL

PANEL HEIGHT

3U = 03
6U = 06
9U = 09

PANEL WIDTH

1 H.P. = 01
2 H.P. = 02
3 H.P. = 03
4 H.P. = 04
8 H.P. = 08

(1 H.P. = .0.2")

OPTION

(S = SUN)
(0-99) = CUSTOMS

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FILLER PANELS

DataCon's Filler Panels are used to fill unused slots within a subrack. They are available in a range of sizes. The panel assembly includes two 2.5mm thumb screws.

FILLER PANEL ORDERING GUIDE

541 XX XX - XX

FRONT PANEL

PANEL HEIGHT

3U = 03
6U = 06
9U = 09
12U = 12

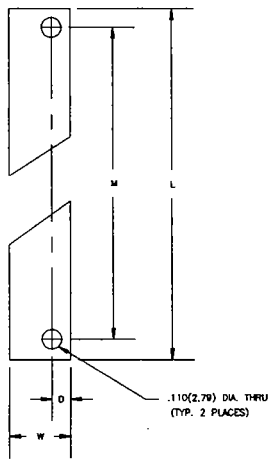
PANEL WIDTH

1 H.P. = 01
2 H.P. = 02
3 H.P. = 03
4 H.P. = 04
8 H.P. = 08

(1 H.P. = 0.2")

OPTION

(S = SUN)
(0-99) = CUSTOMS



Filler Panel			
Sub-Rack Height	Part Number	L	M
3U	54103 XX	5.05(128,27)	4.82(122,43)
6U	54103 XX	10.30(261,62)	10.07(255,78)
9U	54103 XX	15.55(394,97)	15.32(389,12)
9U	54103 XX	15.56(395,22)	15.19(385,82)
.77" (19,55) wide with mounating parovisions for 9U SUN compatible subracks and a "D" dimension of .29"(7,36)			

Width Table		
HP	W	D
1 HP	0.19(4,83)	0.09(2,29)
2 HP	0.39(9,91)	0.09(2,29)
3 HP	0.59(14,99)	0.29(7,37)
4 HP	0.79(20,07)	0.29(7,37)
8 HP	1.59(40,39)	0.69(17,53)

FRONT COVER PANELS

DataCon's Front Cover Panels come as an assembly with thumb screws for mounting the panel to the subrack.

Ordering Information – Front Cover Panels			
Part Number	"A" Height	"B" Width	Description
5420340	5.05(128,27)	7.95(201,93)	3U/40 HP
5420384	5.05(128,27)	16.75(425,45)	3U/84 HP
5420640	10.30(261,62)	7.95(201,93)	6U/40 HP
5420684	10.30(261,62)	16.75(425,45)	6U/84 HP
5420940	5.55(394,97)	7.95(201,93)	9U/40 HP
5420984	15.55(394,97)	16.75(425,45)	9U/84 HP

FRONT COVER PANEL ORDERING GUIDE

542 XX XX - XX

FRONT PANEL

PANEL HEIGHT

3U = 03
6U = 06
9U = 09
12U = 12

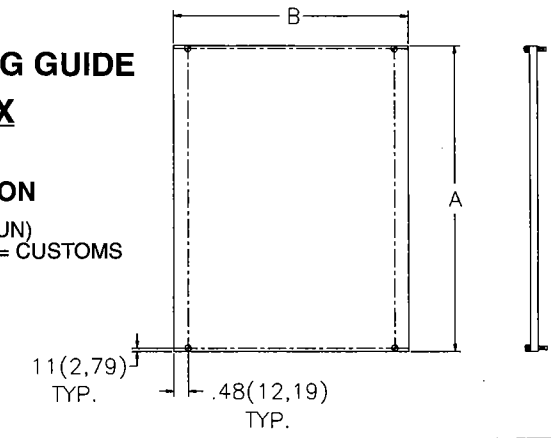
PANEL WIDTH

40 H.P. = 40
84 H.P. = 84

(1 H.P. = .2")

OPTION

(S = SUN)
(0-99) = CUSTOMS



DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Now it is easier than ever to spec out the exact rack and backplane assembly you require with dataCon's System ONE part numbering

DATACON'S SYSTEM ONE ORDERING GUIDE FOR SUBRACK AND BACKPLANE ASSEMBLIES

Ordering your subrack and backplane assembly from dataCon is easy. Follow our simple numbering system to configure any combination of subrack and backplanes. See page 19.

You may specify your own part number which describes your configuration when placing an order. Our sales applications staff will be happy to assist you in the selection of your hardware and part number generation should you require assistance.

To generate a part number for your subrack and backplane assembly, simply follow these steps.

■ Step 1

Select your subrack assembly using the subrack ordering guide on page 19.

■ Steps 2, 3, 4 & 5

Select one of dataCon's backplanes from the backplane section of this catalog for position P1...P2...P3... and P4 to be mounted to your subrack. See page 17. Fill in only the backplane number to be used in the appropriate backplane position.

Note: a monolithic backplane which occupies B.P. Pos. 1 and 2 is identified by assigning the backplane number in position 1. See page 19.

Z BAR KIT	
No. Pos. @ 4 H.P.	Length H.P.
5	25
6	29
7	33
9	41
10	45
12	53
14	61
16	69
20	85

Z BAR KIT ORDERING GUIDE

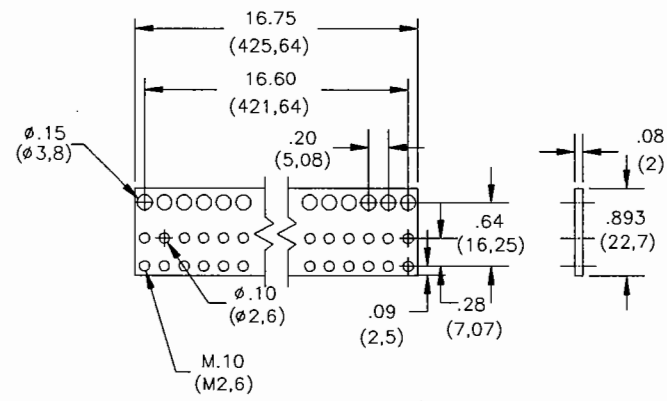
550 X X X X

Z BAR

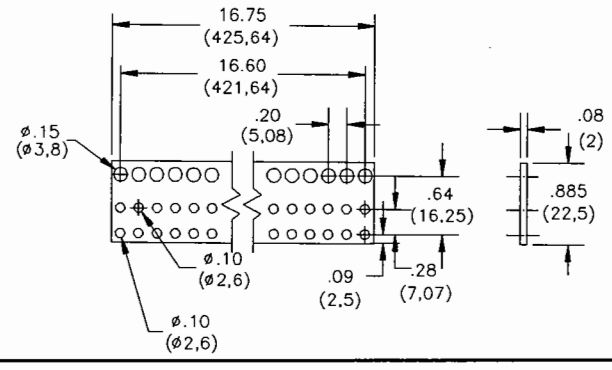
NO. POS. @ 4 H.P.

LENGTH H.P.

E-SERIES



S-SERIES



Z-BARS

dataCon's Z-bars are for mounting discrete connectors and connector accessories in a 3U rack position having no backplane.

Z-bars are available in varied lengths to accommodate any number of connectors.

The Z-bars are used to mount standard connectors (i.e. 96-Pin DIN) with shrouds.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

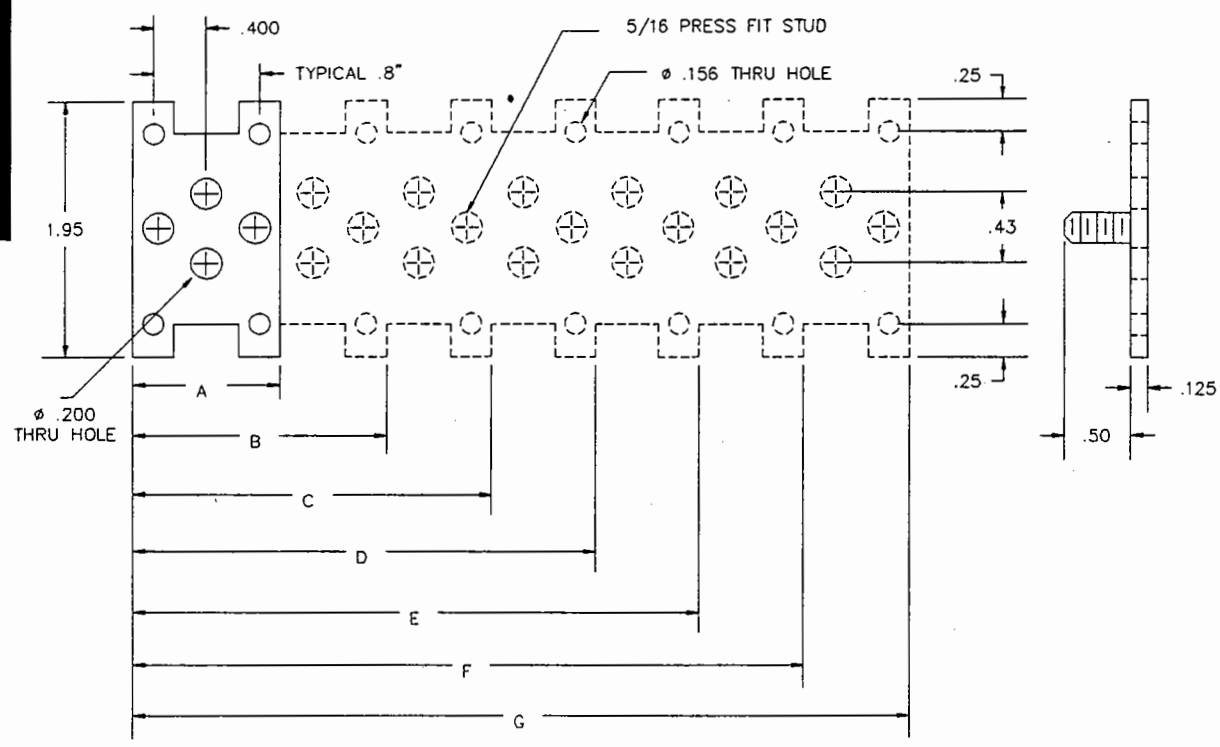
BACKPLANE ACCESSORIES

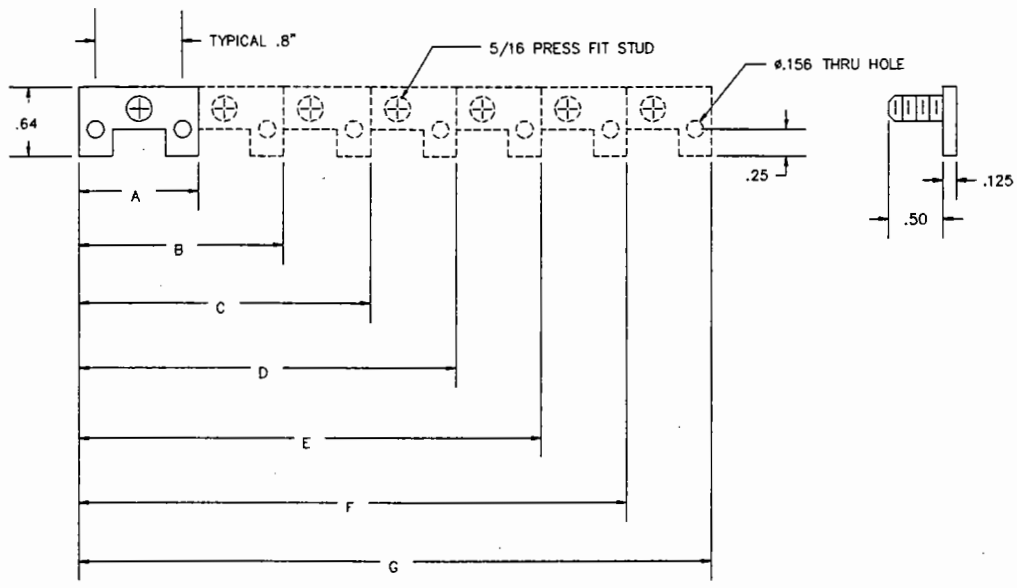
BUS BARS FOR DATACON'S BACKPLANES

dataCon's bus bars simplify power harnessing and allow quick installatin or removal of a power supply to the backplane. The bus bars are .125 thick nickel plated copper for maximum conductivity and resistance to corrosion.

The bus bars mount directly to the power blocks on all dataCon VME and METRIC backplanes. They allow clearance for any installed rear shrouds.

Stainless steel 5/16 - 18 studs are provided for power harness connections.





DATACON
SYSTEMS
PRODUCTS

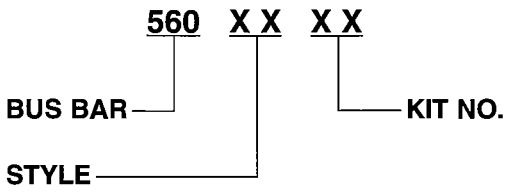
dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Bus Bar Dimensions – Style 1, 2, 3 and 4								
No. of Power Blocks Covered	No. of 5/16" Studs	A	B	C	D	E	F	G
2	1	1.11(28,19)						
3	2		1.91(48,51)					
4	3			2.71(68,83)				
5	4				3.51(89,15)			
6	5					4.31 (109,47)		
7	6						5.11 (129,79)	
8	7							5.91 (150,11)

Configuration – Usage Chart			
Bus Bar Kit No.	Consists of Quantity Style and Size		
5600101	(1) 1A		
5600102	(2) 1A		
5600103	(1) 1A	(1) 1B	
5600104	(2) 1A	(2) 1B	
5600105			
5600106			
5600201			
5600202			
5600301	(1) 3C		
5600302	(1) 3D		
5600303	(1) 3F		
5600304	(2) 3B		
5600305	(1) 3G		
5600306	(1) 3D	(1) 4F	
5600307	(2) 3D		
5600308	(1) 4D	(1) 4F	
5600309	(1) 4D	(1) 4F	(3) 1A
5600401	(1) 4C		
5600402	(1) 4D		
5600403	(1) 4E		
5600404	(1) 4B		
5600405	(2) 4B		
5600406	(1) 4G		
5600407	(1) 4D	(1) 4C	
5600408	(2) 4D	(2) 1A	
5600409	(2) 4D	(1) 4F	(3) 1A
EXAMPLE: VME J1/J2 VGN09 Specifies Bus Bar Kit 5600402 Which Contains 1 Pc. of Style 4 Length D Bus Bar.			

BUS BAR KIT ORDERING GUIDE



DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

ENCLOSURE ACCESSORIES

FAN TRAY ORDERING GUIDE

570 X X X X X X X

FAN TRAY

HEIGHT IN "U"S

01 = 1U

DEPTH

A =
B =
C = 160mm
D = 220mm
E = 280mm
F = 340mm
G = 400mm

Number of Fans

01 = 1
02 = 2
03 = 3

FAN OPTIONS

01 = 12 VDC 70 CFM 4.5"
02 = 12 VDC 90 CFM 4.5"
03 = 12 VDC 105 CFM 4.5"
04 = 12 VDC 200 CFM
05 = 12 VDC 300 CFM
10 = 115 VAC 70 CFM

POWER SUPPLY TRAY ORDERING GUIDE (OPTIONS)

575 X X X X X X X X X X – X X
PS1 PS2 PS3 PS4

POWER SUPPLY TRAY

TABLE A ENCLOSURE

HEIGHT (U = 1.75")

U = INCH
2 = 2U 3.50"
3 = 3U 5.25"
4 = 4U 7.00"
5 = 5U 8.75"
6 = 6U 10.50"
7 = 7U 12.25"
8 = 8U 14.00"
9 = 9U 15.75"
0 = 10U 17.50"
A = 11U 19.25"
B = 12U 21.00"
C = 13U 22.75"
D = 14U 24.50"
F = 15U 26.25"

CARD ACCESSORIES

F = Front
R = Rear
T = Top

MTG STYLE

A = EIA Flange Handles
B = EIA + Slide Prov. 17. Outside
C = Comb. EIA Bars + Slide Prov. 17. Outside
D = Desktop 17. Inside
E = Prov. EIA Bars + Slides 17. Outside
H = EIA Flange Handles/Slides 17. Outside
K = EIA Kit
T = Tower

TABLE B
POWER SUPPLIES

LETTER. I.D	WATTAGE RATING	VOLTAGE/OUTPUT CURRENT +5V.	+12V.	-12V.	-5V.
A =	250W.	35A.	8/12A.PK.	4A.	2A.
B =	350W.	50A.	8/12A.PK.	4A.	2A.
C =	500W.	80A.	10/16A.PK.	10A.	2A.
D =	700W.	100A.	12/20A.PK.	10A.	2A.
E =	750W.	120A.	20/30A.PK.	10A.	10A.
F =	1200W.	150A.	24A.	17A.	10A.
G =	1500W.(dual)	240A.	17A.	17A.	10A.
I =	350W.	45A.	6A.	6A.	
L =	500W.	80A.	10A.	10A.	242A.

VXI – POWER SUPPLY OPTIONS

LETTER I.D.	WATTAGE RATING	VOLTAGE/OUTPUT CURRENT +5V.	+12V.	-12V.	-5.2V.	-2V.	+24V.	-24V.
H =	670W.(Dual)	50A.	8/12A.PK.	6A.	30A.	10A.	3A.	10A.
J =	750W.	80A.	8A.	3A.	25A.	10A.	3A.	3A.
K =	1200W.	70A.	16A.	16A.	28A.	30A	8A.	8A.
M =	2500W.(Dual)	280A.	16A.	16A.	25A.	30A.	8A.	8A.
W =					6A.			
X =							2.4A.	2.4A.
Y =	350W.	40A.	8A.	4A.		5A.		
Z =	No supply							

DRIVE BAY ORDERING GUIDE

580 X X X X X X - X X X

DRIVE BAY

PANEL HEIGHT

3U = 03
6U = 06
9U = 09

WIDTH (9 H.P.)

4 H.P. = 04
6 H.P. = 06
8 H.P. = 08
12 H.P. = 12

DEPTH

C = 160
D = 220
E = 280
F = 340
G = 400

ARRANGEMENT

V = Vertical
H = Horizontal

MODEL NUMBER

001 = Mounting Bracket

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Vertical Cabinets

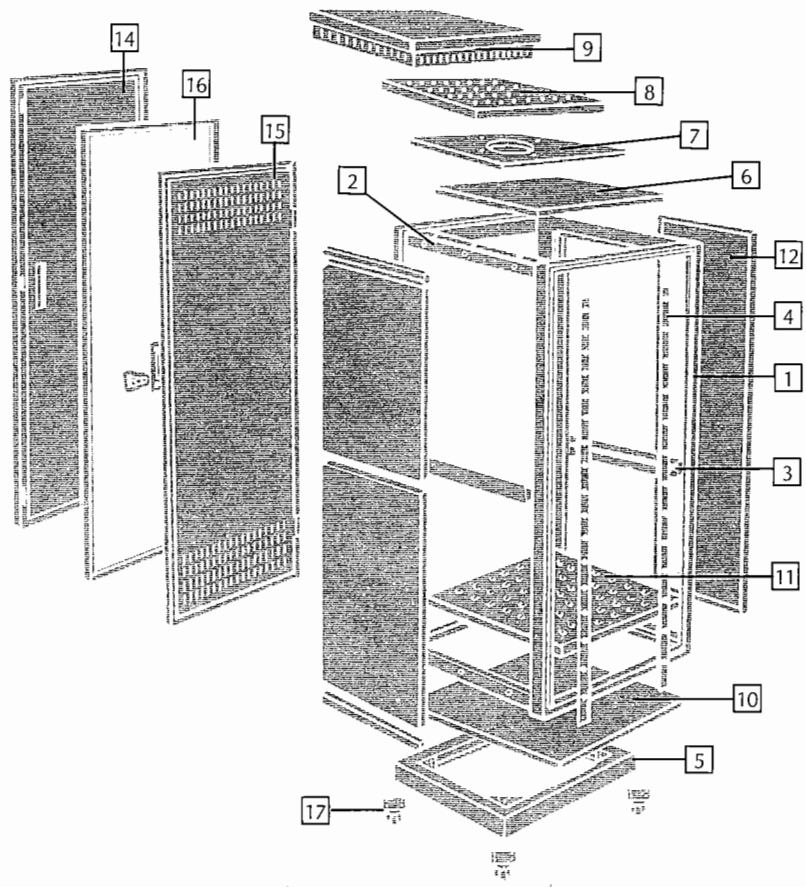
Flexibility is critical to you and your enclosure system's need for long-term growth.

The vertical cabinets give you a wide selection of features and options as you build your system. Flexibility is built in as you add shielded enclosures to an unshielded system or expand size and configuration without problems such as color.

With all of our cabinets you get to choose from two contemporary frame bezel designs, in 11 body and trim colors. Choose the exact components you want from many options available or from 14 different doors (9 shielded and 5 unshielded), 3 types of side panels, 8 top panels and more.

The diagram to the right shows some of the vertical cabinet options available to you.

Call factory for ordering information and more detail in the component selection of the vertical cabinets.



VERTICAL CABINETS

Frame

- 1 Bezel – 2 styles
- 2 Corner member
- 3 Front-to-back stiffener
- 4 Mounting rail – 4 options
- 5 Base -- 2 options

Top Panels

- 6 Solid
- 7 Solid with cut-out for exhaust fan
- 8 Perforated top
- 9 Pagoda-style

Bottom Panels

- 10 Solid Bottom
- 11 Perforated bottom

Side Panels

- 12 One-piece (lift-off or fixed)
- 13 Two-piece with trim (fixed only)

Doors

- 14 Solid
- 15 Vented (top, bottom or fully)
- 16 Transparent acrylic
- 17 Casters

9 XX XX XX XX - XX XX

- Vertical Cabinet
- Unshielded
- Shielded
- Frame Height
- Frame Width
- Frame Depth

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VERTICAL CABINETS

Vertical Cabinets
Unmatched Flexibility

Now you can order your cabinets exactly the way you want them.

Beginning with Frame Options, you can simply locate and select the options and accessories for your system.

With dataCon you have all the flexibility you need to select the right cabinet for your requirements. Choose your own options from the dozens available including doors, panels, tops, bottoms and sides.

Start here... it's simple.

1. Vertical Cabinet Frame Options

Shielded and unshielded versions
- Widths: 19" and 24"
- Depths: 24", 30" and 36"
- Heights: 21"(12U), 28"(16U), 35"(20U), 42"(24U), 52.5"(30U), 61.25"(35U), 70"(40U) and 77"(44U)

2. Mounting Rails

Standard – "U-shape" (included with basic cabinet)
Heavy-duty punched rail – "L-shape"
Heavy-duty tapped (threaded holes) – "L-shape"
Adjustable recessed rails
Heights: 21"(12U), 28"(16U), 35"(20U), 42"(24U), 52.5"(30U), 61.25"(35U), 70"(40U) and 77"(44U)

3. Base Options

Without 11/2" cable exit hole (included with basic cabinet)
With 11/2" cable exit hole (location centered)
Without base (unshielded)
Widths: 19" and 24"
Depths: 24", 30" and 36"

4. Top Panel Options

Shielded and unshielded versions
- Solid (included with basic cabinet)
- Perforated top
- Pagoda-style
- Solid with cut-out for CF-400X exhaust fan (Note: shielded version insludes fan and honeycomb filter)
- Without top (unshielded only)
- Widths: 19" and 24"
- Depths: 24", 30" and 36"

5. Bottom Panel Options

Order Separately – Call Factory

Shielded and unshielded versions
- Solid Bottomn
- Perforated bottom
- Widths: 19" and 24"
- Depths: 24", 30" and 36"

6. Side Panel Options

Order Separately – Call Factory

Shielded and unshielded versions
- Lift-off (one piece, unshielded only)
- Fixed (one-piece or two-piece with trim)
- Heights: 21"(12U), 28"(16U), 35"(20U), 42"(24U), 52.5"(30U), 61.25"(35U), 70"(40U) and 77"(44U)
- Depths: 24", 30" and 36"

7. Door Options

Order Separately – Call Factory

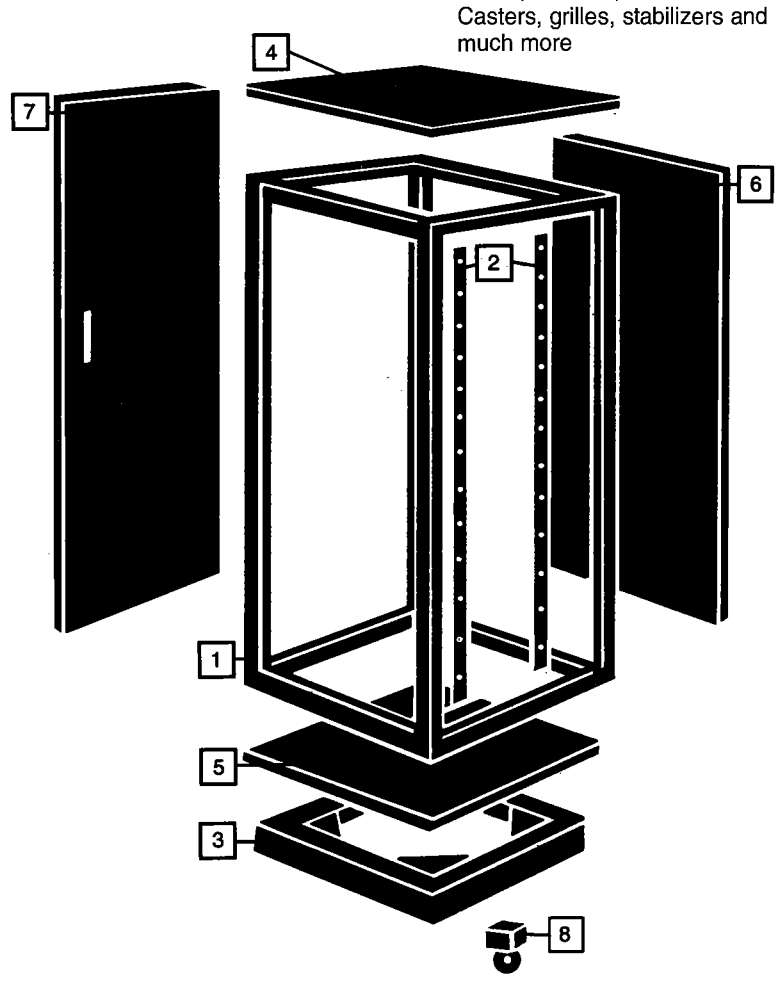
Unshielded
- Solid
- Vented – top or bottom
- Fully vented – top and bottom
- Transparent acrylic

Shielded
- Solid
- Vented – top or bottom with perforated plenum
- Fully vented with perforated plenums - top and bottom
- Transparent acrylic
- Vented – top or bottom with honeycomb
- Fully vented – top or bottom with honeycomb
- Bottom vent with blower and honeycomb
- Bottom vent with blower and honeycomb plus top vent with honeycomb
- Heights: 21"(12U), 28"(16U), 35"(20U), 42"(24U), 52.5"(30U), 61.25"(35U), 70"(40U) and 77"(44U)
- Depths: 24", 30" and 36"

8. Accessories

Order Separately – Call Factory

Choose from a complete selection of accessories including:
- Power control and distribution accessories
- Cooling fans and blowers
- Panels, shelves, writing surfaces
- Slides, drawers, handles
- Casters, grilles, stabilizers and much more



DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

WIRE WRAP SERVICE

dataCon is today's leader in wire wrap services. We provide high quality wrapped boards, backplanes and assemblies to commercial, telecommunications and military companies. Wire wrap is heavily used today for prototypes and medium volume production. dataCon is the primary supplier to the Aerospace and Defense contractors for wire wrap services.

dataCon is committed to the highest level of quality in all of our products and services. In addition, we are committed to keep our pricing competitive and our delivery schedules "On-Time!" Our Customer Service Representatives and Engineers are pledged to follow your program from start to finish to insure its success.

■ Production Capabilities

Our production capabilities provide the highest degree of reliability and quality. With over 50 wire wrap machines in our facility, we are able to wrap panels up to 29" x 29" on our automatic machines and our semi-automatic machines can handle panels up to 64" x 84".

Our fully automatic wire wrap machines provide 100% repeatability of wire routing and sequencing for production runs of two or more pieces. Run rates are as high as 1000 wires per hour with an error rate of 0.05%. Each wrapped wire is tested automatically for continuity, wire tension and insulation abrasion.

Semi-automatic wire wrap machines offer a greater flexibility in applications. Although run rates are 25% of what automatic machines offer, semi-automatic machines can wrap different wire types, gauges and colors. Restricted area routing and specific bundling can be methodized directly at the machine. Matched impedance twisted pairs, triplets, and quads with coaxial shields are wrapped semi-automatically as well as other unique requirements.

At dataCon, quality is built into all of our products and services. Our quality assurance program complies with MIL-I-45208 and our wiring spec. #4241 meets and exceeds MIL-S-1130b. We annually certify all inspectors and operators to MIL-S-1130b. All wiring is 100% visually inspected.

■ Net List Generation

dataCon's proprietary software is comprehensive. As the production tools for wire wrap are created, your data is analyzed for crossed nets, overlapping devices, and single pin strings.

Our Data Processing Department has strived to make our input requirements "customer friendly" and regularly work with customers directly to insure compatibility. Databases are accepted in the media most convenient to you: disk, mag tape, schematics, printouts and modem transfers. Our system is compatible with most popular CAD/CAE systems. Data format requirements are quite flexible. Ask for our data sheet "DATA PREP REQUIREMENTS."

■ dataCon Software Highlights

Optimizing Signal Lengths – to enhance your board's electrical performance, dataCon's processing software determines the shortest wiring path to complete the net, restrict routing from designated zones and prevent wire build-up. Ask for our data sheet entitled "OPTIMIZATION OF SIGNAL LENGTHS."

Power plane assignments – automatically connect voltage and ground pins within the same device to the nearest available power pin, either designated pins on board or solder pins specified in your database. You can solder all of your power assignments, eliminating the need to wire wrap these connections, enhancing performance by eliminating inductance loops of wrapped power connections.

Diagnostic Output – dataCon supplies a copy – hardcopy or magnetic media, of your wire wrap data. A signal trace, with both device pin and board pin reference, simplifies the task of debugging the wrapped board. Two double-ended cross references – one with device pin, the other board pin nomenclature – will minimize the time researching your board.

Auto/Semi Split Wiring For Point to Point Wiring – A unique option of dataCon's software that was developed to meet the requirements of today's high speed circuit designs. Each net is analyzed with the short jumper wires and longer wires in channels wrapped automatically via the shortest path eliminating the excessive loops from the semi-automatic wire wrap process. The results for your board are shorter signal lengths and minimized propagational delay and crosstalk. Ask for our data sheet entitled "AUTO/SEMI SPLIT WIRING PROGRAM."

dataCon SERVICES

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

dataCon SERVICES

dataPlace *PLUS*®

dataCon's CAD software provides the design engineer a fast and flexible component placement for all dataCon wire wrap boards. This software was developed to simplify the complex task of component placement and create error-free files for wire wrap prototypes.

dataPlace *PLUS*® is used in conjunction with CAE net and parts lists, a customer developed library and a template of the selected panel to generate a board layout.

dataPlace *PLUS*® provides error free layouts. It's compatible with most popular CAE interfaces including:

- ORCAD
- PCAD
- SCHEMA
- CASE
- DAISY
- VALID
- MENTOR
- VIEWLOGIC
- FUTURENET

The dataPlace *PLUS*® drawings may be converted into a format compatible with your CAD system or desktop publishing package. dataPlace *PLUS*® supports HPGL, DXF and postscript formats. This allows use of the layouts to develop assembly drawings.

Special requirements such as solder washer placement, twisted pairs and ordering nets connected can be identified and integrated into the layout file to insure transfer of all information to the board.

Templates are available for all dataCon wire wrap boards. Custom templates can be created for your unique applications. dataPlace *PLUS*® requires a component library for operation. Your CAE system library of parts must be utilized.

dataCon furnishes the dataPlace *PLUS*® package free with the purchase of dataCon's wire wrap boards. Our engineering staff will assist you should you need direction or advice using your dataPlace *PLUS*® package. For more information ask for our dataPlace *PLUS*® data sheet.

TEST SERVICES

dataCon tests all boards with 3 volts potential for shorts from VCC to GND before wrapping. The automatic wire wrap machines test each wire as it is wrapped for wire breakage, using 3 volts potential to verify continuity. Another test can be performed at the wire wrap machine is a string test on a wired signal for continuity.

dataCon has two automatic test machines. Each has a bed of nails that can test up to 40,000 points. Each board tested on our automatic test equipment has undesired opens and shorts detected. Boards can be tested at designated points during the production process.

Bare board – prior to wire wrap, PWB's are tested for manufacturing defects.

Clip test – after solder washers are put on board, any misplaced clips are detected.

Wire board test – This test is a composite of all connections on the Board – PWB, clips, and wires and insures all levels of manufacture.

Manual Hi Pot Test:
Manual testing for dielectric strength is done per MIL-STD-202F, Method 302. This test is performed on cable and coax assemblies.

For more information on testing, ask for our "TESTING CAPABILITIES" technical note.

DATACON SYSTEMS PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

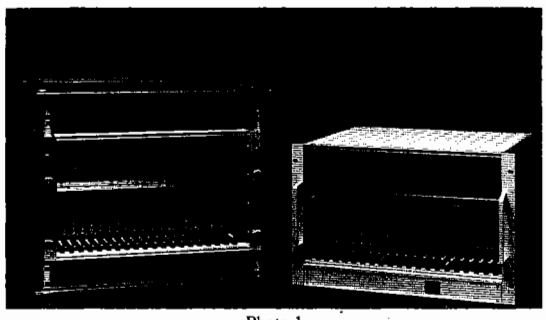


Photo 1

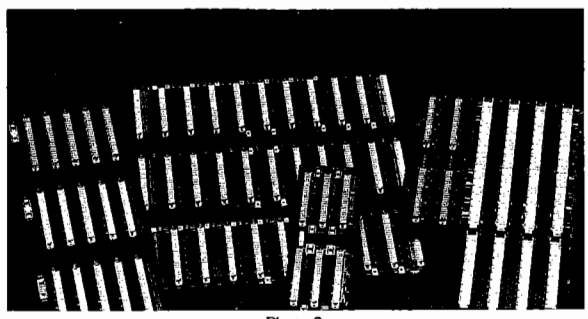
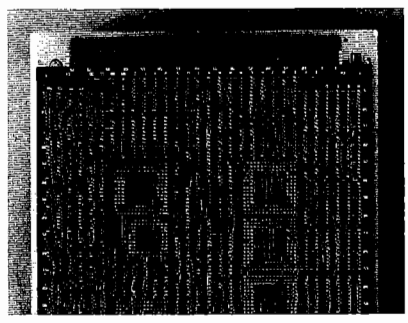


Photo 2

Photo 3



Photo 4



DATACON'S CUSTOM CAPABILITIES AND TURNKEY SYSTEM

CUSTOM POWERED ENCLOSURES
(See Photo 1)

- ***Custom rack mount, desk top and tower styles supporting VME, SUN, VXI, MULTIBUS and FUTUREBUS PLUS.***
- ***Custom "Build to Print" designs***
- ***All systems are designed to meet regulatory agency and safety requirements of UL, CSA, IEC and shielding requirements (EMI/RFI) of FCC and VDE.***
- ***Custom features include:***
  - *Optional power supplies to 2500 watts*
  - *Custom front and rear panels*
  - *Custom EMI windows*
  - *Drive mounting provisions*
  - *Custom cabling*
  - *Custom paint and silk screening*
- ***We design all enclosures to provide optimum cooling accessibility and servicability.***

CUSTOM BACKPLANES
(See Photo 2)

Modified or custom designs for VME, SUN, VXI, MBI, MBII, PC/AT and FUTURE BUS PLUS.
- *Custom Bussing*
- *Unique I/O configurations wire wrapping*

CUSTOM WIRE WRAP BOARDS
(See Photo 3)

- ***Custom designs for various bus structures. Custom "Build to Print" designs.***
- ***Wire Wrapping***

CUSTOM ASSEMBLIES
(See Photo 4)

- ***Fabrication and assembly of custom and "Build to Print" products. These products include***
  - *Custom Cables*
  - *Power harnesses*
  - *Wire Wrap Boards*
  - *Wire Wrapping*
  - *Installation and Soldering of Solder Washers; Discrete components and IC's; Backplanes; Bus Bars and Subracks*
  - *ESD controlled atmosphere room*
  - *Semi-automated component insertion*
  - *Automated reflow*
  - *100% Electrical testing with our universal tester*
  - *Custom wire wrapping; Twisted pairs; Coax*
- ***Workmanship, Processes, Soldering and Testing to Mil specs.***

SERVICES

dataCon

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

TURNKEY SYSTEMS

TURNKEY SYSTEMS

dataCon, the subcontract manufacturer. We offer many years of experience and expertise in the design and manufacturing of turnkey subassemblies and systems packaging products.

■ DESIGN CAPABILITIES

Our staff of electrical and mechanical engineers and product designers will provide their expertise to develop a new design specific to your application. dataCon's offering of standard bus products meet the needs of many small to medium volume applications.

For large volume production or special requirements, our design team can provide a modified standard product or a complete custom design. Our staff is well versed in the design of wire wrap boards, bussed backplanes and packaging products. We use Auto Cad and PADS-2000 for all product design. Chosen for its vast popularity and capability, DXF and datafiles are easily transferred for CAD/CAM manufacturing. Our design team will work together with your engineering staff to provide the optimum, cost effective design, within a competitive time frame. Call dataCon for your new design.

■ FABRICATION AND ASSEMBLY

dataCon will also "Build to Print" custom products. We build custom cable assemblies, power harnesses and wire wrap boards. We offer wire wrapping and installation services, the soldering of solder washers, clips, discreet components and IC's. We offer backplane, bus bar, subrack and powered enclosure assembly.

dataCon's facility includes a dedicated ESD atmosphere controlled room with semi-automatic component installation. Automated reflow is used for medium to large volume soldering. Our Universal tester performs 100% electrical testing.

Custom wire wrapping is available for high speed logic designs which require matched impedance twisted pair, coax and triax or other special wire.

dataCon complies to the following workmanship and soldering specifications.

- Inspection Process: MIL-I-45208
- Assembly: MIL-STD-454
- Soldering: MIL-S-45743
- Soldering: WS-6536E
- Soldering: MIL-STD-2000
- Solderability Testing; MIL-STD-202A

dataCon maintains certification as a contractor for soldering to MIL-STD-2000.

We use METCAL soldering stations featuring temperature controlled soldering tips which maintain a +/- 10° F temperature setting. Solderability tests are performed on components prior to soldering per MIL-STD-202, Method 208. dataCon is certified by several defense contractors which include: FMC, Martin Marietta and Westinghouse.

Our commercial soldering applications meet the general requirements of MIL-STD-2000. Quality comes first at dataCon.

Your program is as important to dataCon as it is to you. A Program Manager is assigned to your project and follows it through from receipt of your order to delivery of your product. Our design and manufacturing engineering staff review your project and develop a process and documentation to meet your specifications prior to production.

With a single purchase order, you can get turnkey products and services form dataCon that are 100% quality and satisfaction guaranteed.

Call dataCon for a review and proposal of your program.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

dataCon's Manufacturing Standards and Material Specifications

Manufacturing Standards

dataCon's manufacturing methods, quality standards and workmanship comply with the following specifications:

DESCRIPTION	STANDARD
Workmanship	MIL-STD-454
Quality Approval	MIL-Q-9858
Inspection System	MIL-I-45208
Reliability Handbook	MIL-HDBK-217
Sampling Plans	MIL-STD-105
Calibration	MIL-STD-45662
Hi-Rel Solder	MIL-STD-2000
Hi-Rel Solder	WS-6536
Hi-Rel Solder	MIL-S-45743
Wire wrapping	MIL-STD-1130
Wire wrapping	WS-6119
Wire	MIL-W-81822
dataCon Wire Wrap Spec.	4241
Marking	MIL-STD-130
Board & Backplane Fabrication	MIL-P-55110
Board & Backplane Fabrication	IPC-A-600
Tin Lead Plate	MIL-P-81728
Tin Lead Adhesion	IPC-TM-650
Solderability	IPC-A-600
Legend Integrity	IPC-TM-650
Multilayer Lamination	IPC-MIL-910

Material Specifications

The material used in dataCon's products meet the following specifications:

Products		Specifications	
Enclosures	Subracks		
√	√	QQA 250/8	5052-H32 Aluminum (Side Plates)
√	√	QQA 200/9	6063-T6 Aluminum (Extrusions)
√	√	MIL-M-20693A	Nylon (Card Guides)
√	√	MIL-C-5541	Clear Chromate Plating
√	√	MIL-A-8625	Black-Anodize Plating
√	√	MIL-C-5541	Yellow Chromate Plating
Backplanes	**Wire Wrap**	**Specifications**	
√	√	QQ-C-576	Copper (Bus Bars)
√	√	MIL-G-45204	Gold Plating
√	√	QQ-N-290	Nickel Plating
√	√	QQ-C-533	Berillium Copper (Pins/Contacts)
√	√	QQ-C-530	Berillium Copper (Contacts)
√	√	QQ-B-626	Brass (Contacts)
√	√	MIL-C-55302	C96 Connectors
√	√	MIL-P-13949	FR4 Board Material

International Standards

dataCon is an IEEE member. We offer products that support many International open bus standards. Our products are designed to meet the following design standards:

Standard	Description	Standard	Description
IEEE 1014	VME		VME/Futurebus+/Multibus II
IEC 821	VME	IEEE 2973	Mechanical Core Subracks
IEEE 1096	VSB	DIN41494	Mechanical Core Subracks Front Panel
IEEE P1155	VXI	DIN 41612	C96 Connector
IEEE P896	Futurebus+	IEC 603-2	C96 Connector
IEEE P996	PC/AT	IEEE P 1101.2	Futurebus+ 2mm Connector
IEEE 796	Multibus I	ANSI/EIA RS-310-C	Subracks/Front Panels 19 Inch
IEEE 1296	Multibus II		
IEEE 1101	Mechanical Core Requirments		

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VMEbus MNEMONIC CHART

Pin Assignments for J1 Connectors

PIN NUMBER	ROW A SIGNAL MNEMONIC	ROW B SIGNAL MNEMONIC	ROW C SIGNAL MNEMONIC
1	D00	BBSY	D08
2	D01	BCLR	D09
3	D02	ACFAIL	D10
4	D03	BG0IN	D11
5	D04	BG0OUT	D12
6	D05	BG1IN	D13
7	D06	BG1OUT	D14
8	D07	BG2IN	D15
9	GND	BG2OUT	GND
10	SYSCLK	G3IN	SYSFAIL
11	GND	BG3OUT	BERR
12	DS1	BR0	SYSRESET
13	DS0	BR1	LWORD
14	WRITE	BR2	AM5
15	GND	BR3	A23
16	DTACK	AM0	A22
17	GND	AM1	A21
18	AS	AM2	A20
19	GND	AM3	A19
20	IACK	GND	A18
21	IACKIN	SERCLK(1)	A17
22	IACKOUT	SERDAT(1)	A16
23	AM4	GND	A15
24	A07	IRQ7	A14
25	A06	IRQ6	A13
26	A05	IRQ5	A12
27	A04	IRQ4	A11
28	A03	IRQ3	A10
29	A02	IRQ2	A09
30	A01	IRQ1	A08
31	-12V	+5VSTDBY	+12V
32	+5V	+5V	+5V

Pin Assignments for J2 Connectors

PIN NUMBER	ROW A SIGNAL MNEMONIC	ROW B SIGNAL MNEMONIC	ROW C SIGNAL MNEMONIC
1	User Defined	+5V	User Defined
2	User Defined	GND	User Defined
3	User Defined	RESERVED	User Defined
4	User Defined	A24	User Defined
5	User Defined	A25	User Defined
6	User Defined	A26	User Defined
7	User Defined	A27	User Defined
8	User Defined	A28	User Defined
9	User Defined	A29	User Defined
10	User Defined	A30	User Defined
11	User Defined	A31	User Defined
12	User Defined	GND	User Defined
13	User Defined	+5V	User Defined
14	User Defined	D16	User Defined
15	User Defined	D17	User Defined
16	User Defined	D18	User Defined
17	User Defined	D19	User Defined
18	User Defined	D20	User Defined
19	User Defined	D21	User Defined
20	User Defined	D22	User Defined
21	User Defined	D23	User Defined
22	User Defined	GND	User Defined
23	User Defined	D24	User Defined
24	User Defined	D25	User Defined
25	User Defined	D26	User Defined
26	User Defined	D27	User Defined
27	User Defined	D28	User Defined
28	User Defined	D29	User Defined
29	User Defined	D30	User Defined
30	User Defined	D31	User Defined
31	User Defined	GND	User Defined
32	User Defined	+5V	User Defined

Solder Washers			Qty
VCC	J1	A32, B32, C32	6
	J2	B1, B13, B32	
GND	J1	A9, A11, A15, A17, A19, B20, B23, C9	12
	J2	B2, B12, B22, B31	

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

VXIbus MNEMONIC CHART

NOTE: Pin Assignments for the VXI J1 Connector are the Same as VME J1. Please Refer to VME Mnemonic Chart.

J2 Slots 1-12 Pin Definitions			
PIN NUMBER	ROWa SIGNAL MNEMONIC	ROWb SIGNAL MNEMONIC	ROWc SIGNAL MNEMONIC
1	ECLTRG0	+5V	CLK10+
2	-2V	GND	CLK10-
3	ECLTRG1	RSV1	GND
4	GND	A24	-5.2V
5	LBUSA00	A25	LBUSC00
6	LBUSA01	A26	LBUSC01
7	-5.2V	A27	GND
8	LBUSA02	A28	LBUSC02
9	LBUSA03	A29	LBUSC03
10	GND	A30	GND
11	LBUSA04	A31	LBUSC04
12	LBUSA05	GND	LBUSC05
13	-5.2V	+5V	-2V
14	LBUSA06	D16	LBUSC06
15	LBUSA07	D17	LBUSC07
16	GND	D18	GND
17	LBUSA08	D19	LBUSC08
18	LBUSA09	D20	LBUSC09
19	-5.2V	D21	-5.2V
20	LBUSA10	D22	LBUSC10
21	LBUSA11	D23	LBUSC11
22	GND	GND	GND
23	TTLTRG0	D24	TTLTRG1*
24	TTLTRG2	D25	TTLTRG3*
25	+5V	D26	GND
26	TTLTRG4	D27	TTLTRG5*
27	TTLTRG6	D28	TTLTRG7*
28	GND	D29	GND
29	RSV2	D30	RSV3
30	MODID	D31	GND
31	GND	GND	+24V
32	SUMBUS	+5V	-24V

J2 Slot 0 Pin Definitions			
PIN NUMBER	ROW A SIGNAL MNEMONIC	ROW B SIGNAL MNEMONIC	ROW C SIGNAL MNEMONIC
1	ECLTRG0	+5V	CLK10+
2	-2V	GND	CLK10-
3	ECLTRG1	RSV1	GND
4	GND	A24	-5.2V
5	MODID12	A25	LBUSC00
6	MODID11	A26	LBUSC01
7	-5.2V	A27	GND
8	MODID10	A28	LBUSC02
9	MODID09	A29	LBUSC03
10	GND	A30	GND
11	MODID08	A31	LBUSC04
12	MODID07	GND	LBUSC05
13	-5.2V	+5V	-2V
14	MODID06	D16	LBUSC06
15	MODID05	D17	LBUSC07
16	GND	D18	GND
17	MODID04	D19	LBUSC08
18	MODID03	D20	LBUSC09
19	-5.2V	D21	-5.2V
20	MODID02	D22	LBUSC10
21	MODID01	D23	LBUSC11
22	GND	GND	GND
23	TTLTRG0	D24	TTLTRG1*
24	TTLTRG2	D25	TTLTRG3*
25	+5V	D26	GND
26	TTLTRG4	D27	TTLTRG5*
27	TTLTRG6	D28	TTLTRG7*
28	GND	D29	GND
29	RSV2	D30	RSV3
30	MODID00	D31	GND
31	GND	GND	+24V
32	SUMBUS	+5V	-24V

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SUN MNEMONIC CHART

NOTE: Pin Assignments for the SUN J1 Connector are the Same as VME J1. Please Refer to VME Mnemonic Chart.

Pin Assignments for SUN J2 Connector

PIN NUMBER	ROW A SIGNAL MNEMONIC	ROW B SIGNAL MNEMONIC	ROW C SIGNAL MNEMONIC
1	2XCLKZB	+5	1000
2	ZGND0	GND	1001
3	ZBUS00	RESERVED	1002
4	ZBUS01	A24	1003
5	ZBUS02	A25	1004
6	ZBUS03	A26	1005
7	ZBUS04	A27	1006
8	ZGND1	A28	1007
9	ZBUS05	A29	1008
10	ZBUS06	A30	1009
11	ZBUS07	A31	1010
12	ZBUS08	GND	1011
13	ZBUS09	+5	1012
14	ZGND2	D16	1013
15	ZBUS10	D17	1014
16	ZBUS11	D18	1015
17	ZBUS12	D19	1016
18	ZBUS13	D20	1017
19	ZBUS14	D21	1018
20	ZBUS15	D22	1019
21	ZGND3	D23	1020
22	ZBUS STRTRD	GND	1021
23	RDZBUS	D24	1022
24	RDBRPM	D25	1023
25	RDMP	D26	1024
26	ZGND4	D27	1025
27	ZDEST2	D28	1026
28	ZDEST1	D29	1027
29	ZDEST0	D30	1028
30	STZBUS RDY	D31	1029
31	ZGND5	GND	1030
32	PPCLKZU	+5V	1031

Pin Assignments for SUN J3 Connector

PIN NUMBER	ROW A SIGNAL MNEMONIC	ROW B SIGNAL MNEMONIC	ROW C SIGNAL MNEMONIC
1	+5	1000	GND
2	+5	1001	GND
3	+5	1002	GND
4	+5	1003	GND
5	+5	1004	GND
6	+5	1005	GND
7	+5	1006	GND
8	+5	1007	GND
9	+5	1008	GND
10	+5	1009	GND
11	+5	1010	GND
12	+5	1011	GND
13	+5	1012	GND
14	+5	1013	GND
15	+5	1014	GND
16	+5	1015	GND
17	+5	1016	GND
18	+5	1017	GND
19	+5	1018	GND
20	+5	1019	GND
21	+5	1020	GND
22	+5	1021	GND
23	+5	1022	GND
24	+5	1023	GND
25	+5	1024	GND
26	+12	1025	+12
27	+12	1026	+12
28	-12	1027	-12
29	-12	1028	-12
30	-5	1029	-5
31	-5	1030	-5
32	-5	1031	-5

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

PC/AT MNEMONIC CHART

I/O Channel A-Side, J1 through J8		
I/O Pin	Signal Name	I/O
A1	- I/O CH CK	I
A2	SD7	I/O
A3	SD6	I/O
A4	SD5	I/O
A5	SD4	I/O
A6	SD3	I/O
A7	SD2	I/O
A8	SD1	I/O
A9	SD0	I/O
A10	- I/O CH RDY	I/O
A11	AEN	I
A12	SA19	O
A13	SA18	I/O
A14	SA17	I/O
A15	SA16	I/O
A16	SA15	I/O
A17	SA14	I/O
A18	SA13	I/O
A19	SA12	I/O
A20	SA11	I/O
A21	SA10	I/O
A22	SA9	I/O
A23	SA8	I/O
A24	SA7	I/O
A25	SA6	I/O
A26	SA5	I/O
A27	SA4	I/O
A28	SA3	I/O
A29	SA2	I/O
A30	SA1	I/O
A31	SA0	I/O

I/0 Channel B-Side, J1 through J8		
I/O Pin	Signal Name	I/O
B1	GND	Ground
B2	RESET DRV	O
B3	+5 Vdc	Power
B4	IRQ9	I
B5	-5 Vdc	Power
B6	DRQ2	I
B7	-12 Vdc	Power
B8	OWS	I
B9	+12 Vdc	Power
B10	GND	Ground
B11	-SMEMW	O
B12	-SMEMR	O
B13	-10W	I/O
B14	-10R	I/O
B15	-DACK3	O
B16	DRQ3	I
B17	-DACK1	O
B18	DRQ1	I
B19	-REFRESH	I/O
B20	CLK	O
B21	IRQ7	I
B22	IRQ6	I
B23	IRQ5	I
B24	IRQ4	I
B25	IRQ3	I
B26	-DACK2	O
B27	T/C	O
B28	BALE	O
B29	+5 Vdc	Power
B30	OSC	O
B31	GND	Ground

I/O Channel C-Side, J10 through J14 and 16		
I/O Pin	Signal Name	I/O
C1	SBHE	I/O
C2	LA23	I/O
C3	LA22	I/O
C4	LA21	I/O
C5	LA20	I/O
C6	LA19	I/O
C7	LA18	I/O
C8	LA17	I/O
C9	-MEMR	I/O
C10	-MEMW	I/O
C11	SD08	I/O
C12	SD09	I/O
C13	SD10	I/O
C14	SD11	I/O
C15	SD12	I/O
C16	SD13	I/O
C17	SD14	I/O
C18	SD15	I/O

I/O Channel D-Side, J10 through J14 and 16		
I/O Pin	Signal Name	I/O
D1	MEM CS16	I
D2	-I/O CS16	I
D3	IRQ10	I
D4	IRQ11	I
D5	IRQ12	I
D6	IRQ15	I
D7	IRQ14	I
D8	-DACK0	O
D9	DRQ0	I
D10	-DACK5	O
D11	DRQ5	I
D12	-DACK6	O
D13	DRQ6	I
D14	-DACK7	O
D15	DRQ7	I
D16	+5 Vdc	Power
D17	-MASTER	I
D18	GND	GROUND

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Multibus MNEMONIC CHART

MULTIBUS (P1) Pin Assignments		
	(Component Side) Pin Mnemonic	(Circuit Side) Pin Mnemonic
Power Supplies	1 GND	2 GND
	3 +5V	4 +5V
	5 +5V	6 +5V
	7 +12V	8 +12V
	9 Reserved, Bussed	10 Reserved, Bussed
	11 GND	12 GND
Bus Controls	13 BCLK	14 INIT
	15 BPRN	16 BPR0
	17 BUSY	18 BREQ
	19 MRDC	20 MWTC
	21 IORC	22 IOWC
	23 XACK	24 INH1
Bus Controls and Address	25 LOCK	26 INH2
	27 BHEN	28 AD10
	29 CBRQ	30 AD11
	31 CCLK	32 AD12
	33 INTA	34 AD13
Interrupts	35 INT6	36 INT7
	37 INT4	38 INT5
	39 INT2	40 INT3
	41 INT0	42 INT1
Address	43 ADRE	44 ADRF
	45 ADRC	46 ADRD
	47 ADRA	48 ADRB
	49 ADR8	50 ADR9
	51 ADR6	52 ADR7
	53 ADR4	54 ADR5
	55 ADR2	56 ADR3
	57 ADR0	58 ADR1
Data	59 DATA	60 DATF
	61 DATC	62 DATD
	63 DATA	64 DATB
	65 DAT8	66 DAT9
	67 DAT6	68 DAT7
	69 DAT4	70 DAT5
	71 DAT2	72 DAT3
	73 DAT0	74 DAT1
Power Supplies	75 GND	76 GND
	77 Reserved, Bussed	78 Reserved, Bussed
	79 -12V	80 -12V
	81 +5V	82 +5V
	83 +5V	84 +5V
	85 GND	86 GND

MULTIBUS (P2) Pin Assignments per IEEE 796		
	(Component Side) Pin Mnemonic	(Circuit Side) Pin Mnemonic
	1 Reserved, Not Bussed	2Reserved, Not Bussed
	3 Reserved, Not Bussed	4Reserved, Not Bussed
	5 Reserved, Not Bussed	6Reserved, Not Bussed
	7 Reserved, Not Bussed	8Reserved, Not Bussed
	9 Reserved, Not Bussed	10Reserved, Not Bussed
	11 Reserved, Not Bussed	12Reserved, Not Bussed
	13 Reserved, Not Bussed	14Reserved, Not Bussed
	15 Reserved, Not Bussed	16Reserved, Not Bussed
	17 Reserved, Not Bussed	18 Reserved, Not Bussed
	19 Reserved, Not Bussed	20 Reserved, Not Bussed
	21 Reserved, Not Bussed	22 Reserved, Not Bussed
	23 Reserved, Not Bussed	24 Reserved, Not Bussed
	25 Reserved, Not Bussed	26 Reserved, Not Bussed
	27 Reserved, Not Bussed	28 Reserved, Not Bussed
	29 Reserved, Not Bussed	30 Reserved, Not Bussed
	31 Reserved, Not Bussed	32 Reserved, Not Bussed
	33 Reserved, Not Bussed	34 Reserved, Not Bussed
	35 Reserved, Not Bussed	36 Reserved, Not Bussed
	37 Reserved, Not Bussed	38 Reserved, Not Bussed
	39 Reserved, Not Bussed	40 Reserved, Not Bussed
	41 Reserved, Bussed	42 Reserved, Bussed
	43 Reserved, Bussed	44 Reserved, Bussed
	45 Reserved, Bussed	46 Reserved, Bussed
	47 Reserved, Bussed	48 Reserved, Bussed
	49 Reserved, Bussed	50 Reserved, Bussed
	51 Reserved, Bussed	52 Reserved, Bussed
	53 Reserved, Bussed	54 Reserved, Bussed
Address	55 ADR16	56 ADR17
	57 ADR14	58 ADR15
	59 Reserved, Bussed	60 Reserved, Bussed

NOTE: For Fully Bussed P2 Backplanes Pins 1 thru 54, 59 and 60 are Reserved, Bussed

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Multibus II MNEMONIC CHART

iPSB Pin Assignments			
Pin Number	Row A	Row B	Row C
1	0 Volts	PROT	0 Volts
2	+5 Volts	DCLOW	+5 Volts
3	+12 Volts	+5 Battery	+12 Volts
4	0 Volts (note 1)	SDA (note 3)	BCLK
5	TIMOUT	SDB (note 3)	0 Volts
6	LACHn (note 2)	0 Volts	CCLK
7	AD00	AD01	0 Volts
8	AD02	0 Volts	AD03
9	AD04	AD05	AD06
10	AD07	+5 Volts	PAR0
11	AD08	AD09	AD10
12	AD11	+5 Volts	AD12
13	AD13	AD14	AD15
14	PAR1	0 Volts	AD16
15	AD17	AD18	AD19
16	AD20	0 Volts	AD21
17	AD22	AD23	PAR2
18	AD24	0 Volts	AD25
19	AD26	AD27	AD28
20	AD29	0 Volts	AD30
21	AD31	Reserved	PAR3
22	+5 Volts	+5 Volts	Reserved
23	BREQ	RST	BUSERR
24	ARB5	+5 Volts	ARB4
25	ARB3	RSTNC	ARB2
26	ARB1	0 Volts	ARB0
27	SC9	SC8	SC7
28	SC6	0 Volts	SC5
29	SC4	SC3	SC2
30	-12 Volts	+5 Battery	-12 Volts
31	+5 Volts	SC1	+5 Volts
32	0 Volts	SC0	0 Volts

iLBX™ Pin Assignments			
Pin No.	Pin Column A	Pin Column B	Pin Column C
1	0 Volts	XC3	0 Volts
2	+5 Volts	XC2	+5 Volts
3	Reserved	XC1	Reserved
4	Reserved	XC0	Reserved
5	XBTCTL	XACCREQ	XLOCK
6	XAERR	0 Volts	XWAIT
7	XA0	XA01	XDERR
8	XA02	XA03	XA04
9	XA05	XA06	XA07
10	XA08	+5 Volts	XA09
11	XA10	XA11	XA12
12	XA13	XA14	XA15
13	XA16	XID2	XA17
14	XA18	XA19	XA20
15	XA21	XID1	XA22
16	XA23	XA24	XA25
17	XD0	XID0	XAPAR
18	XD01	XD02	XD03
19	XD04	XD05	XD06
20	XD07	0 Volts	XD08
21	XD09	XD10	XD11
22	XD12	XD13	XD14
23	XD15	XD16	XD17
24	XD18	+5 Volts	XD19
25	XD20	XD21	XD22
26	XD23	XD24	XD25
27	XD26	XD27	XD28
28	XD29	0 Volts	XD30
29	XD31	XDPAR	XBUSREQ
30	XRESET	XINT	XBUSACK
31	+5 Volts	Reserved	+5 Volts
32	0 Volts	XBCLK	0 Volts

dataCon

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Futurebus+ MNEMONIC CHART

a b c d	A	B	C	X	D	E	F	G	a b c d

■

Connector B Pinout for 64/32 Bit Address and Data Paths				
	A	B	C	D
1	RE*	A1*	DS*	GA0*
2	GA1*	AK*	GND	AR*
3	AS*	GND	AQ*	AP*
4	GND	D1*	DK*	GND
5	GA2*	GA3*	GND	GA4*
6	ET*	GND	AC0*	AC1*
7	GND	CA0*	CA1*	GND
8	CA2*	ABP*	GND	AB0*
9	AB1*	GND	AB2*	AB3*
10	GND	AB4*	AB5*	GND
11	AB6*	AB7*	GND	CP*
12	CM0*	GND	CM1*	CM2*
13	GND	CM3*	CM4*	GND
14	CM5*	CM6*	GND	CM7*
15	SB0*	GND	SB1*	ST0*
16	GND	ST1*	ST2*	GND
17	ST3*	ST4*	GND	ST5*
18	ST6*	GND	ST7*	TG0*
19	GND	TG1*	TG2*	GND
20	TG3*	TG4*	GND	TG5*
21	TG6*	GND	TG7*	TP*
22	GND	AD0*	AD1*	GND
23	AD2*	AD3*	GND	AD4*
24	AD5*	GND	AD6*	AD7*
25	GND	BP0*	AD8*	GND
26	AD9*	AD10*	GND	AD11*
27	AD12*	GND	AD13*	AD14*
28	GND	AD15*	BP1*	GND
29	AD16*	AD17*	GND	AD18*
30	AD19*	GND	AD20*	AD21*
31	GND	AD22*	AD23*	GND
32	BP2*	AD24*	GND	AD25*
33	AD26*	GND	AD27*	AD28*
34	GND	AD29*	AD30*	GND
35	AD31*	BP3*	GND	AD32*
36	AD33*	GND	AD34*	AD35*
37	GND	AD36*	AD37*	GND
38	AD38*	AD39*	GND	BP4*
39	AD40*	GND	AD41*	AD42*
40	GND	AD43*	AD44*	GND
41	AD45*	AD46*	GND	AD47*
42	BP5*	GND	AD48*	AD49*
43	GND	AD50*	AD51*	GND
44	AD52*	AD53*	GND	AD54*
45	AD55*	GND	BP6*	AD56*
46	GND	AD57*	AD58*	GND
47	AD59*	AD60*	GND	AD61*
48	AD62*	GND	AD63*	BP7*

Connector E Pinout for 128 Bit Data Path Extension				
	A	B	C	D
1	GND	D64*	D65*	GND
2	D66*	D67*	GND	D68*
3	D69*	GND	D70*	D71*
4	GND	BP8*	D72*	GND
5	D73*	D74*	GND	D75*
6	D76*	GND	D77*	D78*
7	GND	D79*	BP9*	GND
8	D80*	D81*	GND	D82*
9	D83*	GND	D84*	D85*
10	GND	D86*	D87*	GND
11	BP10*	D88*	GND	D89
12	D90*	GND	D91*	D92*
13	GND	D93*	D94*	GND
14	D95*	BP11*	GND	D96*
15	D97*	GND	D98*	D99*
16	GND	D100*	D101*	GND
17	D102*	D103*	GND	BP12*
18	D104*	GND	D105*	D106*
19	GND	D107*	D108*	GND
20	D109*	D110*	GND	D111*
21	BP13*	GND	D112*	D113*
22	GND	D114*	D115*	GND
23	D116*	D117*	GND	D118*
24	D119*	GND	BP14*	D120*
25	GND	D121*	D122*	GND
26	D123*	D124*	GND	D125*
27	D126*	GND	D127*	BP15*
28	GND	GND	GND	GND
29	RQ0-7*	GR-7*	GND	RQO-8*
30	RQ1-7*	GND	GR-8*	RQ1-8*
31	GND	BD0	BD1	GND
32	RQ0-6*	GR-6*	GND	RQ0-9*
33	RQ1-6*	GND	GR-9*	RQ1-9*
34	GND	BD2	Rsrvd	GND
35	RQ0-5*	GR-5*	GND	RQ0-10*
36	RQ1-5*	GND	GR-10*	RQ1-10*
37	GND	Rsrvd	Rsrvd	GND
38	RQ0-4*	GR-4*	GND	RQ0-11*
39	RQ1-4*	GND	GR-11*	RQ1-11*
40	GND	Rsrvd	Rsrvd	GND
41	RQ0-3*	GR-3*	GND	RQ0-12*
42	RQ1-3*	GND	GR-12*	RQ1-12*
43	GND	Rsrvd	Rsrvd	GND
44	RQ0-2*	GR-2*	GND	RQ0-13*
45	RQ1-2*	GND	GR-13*	RQ1-13*
46	GND	SYRST	ACLO	GND
47	RQ0-1*	GR-1*	GND	RQ0-14*
48	RQ1-1*	GND	GR-14*	RQ1-14*

Connector Block X				
	A	B	C	D
1	GND	RQ0*	RQ1*	GND
2	GR*	PE*	GND	Rsrvd
3	Rsrvd	GND	Rsrvd	Rsrvd
4	GND	Rsrvd	Rsrvd	GND
5	Rsrvd	Rsrvd	GND	Rsrvd
6	Rsrvd	GND	Rsrvd	Rsrvd

■ **For Central Arbitration Implementation:**
Slot 1 rows 28-48 defined as shown.
All other slots, rows 28-48 are undifined.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Futurebus+ MNEMONIC CHART

Connector D Pinout for 256 Bit Data Path Extension

	A	B	C	D
1	GND	D64	D65	GND
2	D66	D67	GND	D68
3	D69	GND	D70	D71
4	GND	BPFZ	D72	GND
5	D73	D74	GND	D75
6	D76	GND	D77	D78
7	GND	D79	BPFY	GND
8	D80	D81	GND	D82
9	D83	GND	D84	D85
10	GND	D86	D87	GND
11	BPFX	D88	GND	D89
12	D90	GND	D91	D92
13	GND	D93	D94	GND
14	D95	BPFW	GND	D96
15	D97	GND	D98	D99
16	GND	D100	D101	GND
17	D102	D103	GND	BPEZ
18	D104	GND	D105	D106
19	GND	D107	D018	GND
20	D109	D110	GND	D111
21	BPEY	GND	D112	D113
22	GND	D114	D115	GND
23	D116	D117	GND	D118
24	D119	GND	BPEX	D120
25	GND	D121	D122	GND
26	D123	D124	GND	D125
27	D126	GND	D127	BPEW
28	GND	D128	D129	GND
29	D130	D131	GND	D132
30	D133	GND	D134	D135
31	GND	BPDZ	D136	GND
32	D137	D138	GND	D139
33	D140	GND	D141	D142
34	GND	D143	BPDY	GND
35	D144	D145	GND	D146
36	D147	GND	D148	D149
37	GND	D150	D151	GND
38	BPDX	D152	GND	D153
39	D154	GND	D155	D156
40	GND	D157	D158	GND
41	D159	BPDW	GND	D160
42	D161	GND	D162	D163
43	GND	D164	D165	GND
44	D166	D167	GND	BPCZ
45	D168	GND	D169	D170
46	GND	D171	D172	GND
47	D173	D174	GND	D175
48	BPCY	GND	Res	Res

Connector G Pinout for 256 Bit Data Path Extension

	A	B	C	D
1	GND	D176	D177	GND
2	D178	D179	GND	D180
3	D181	GND	D182	D183
4	GND	BPCX	D184	GND
5	D185	D186	GND	D187
6	D188	GND	D189	D190
7	GND	D191	BPCW	GND
8	D192	D193	GND	D194
9	D195	GND	D196	D197
10	GND	D198	D199	GND
11	BPBZ	D200	GND	D201
12	D202	GND	D203	D204
13	GND	D205	D206	GND
14	D207	BPBY	GND	D208
15	D209	GND	D210	D211
16	GND	D212	D213	GND
17	D214	D215	GND	BPBX
18	D216	GND	D217	D218
19	GND	D219	D120	GND
20	D221	D222	GND	D223
21	BPBW	GND	D224	D225
22	GND	D226	D227	GND
23	D228	D229	GND	D230
24	D231	GND	BPAZ	D232
25	GND	D233	D234	GND
26	D235	D236	GND	D237
27	D238	GND	D239	BPAY
28	GND	D240	D241	GND
29	D242	D243	GND	D244
30	D245	GND	D246	D247
31	GND	BPAX	D248	GND
32	D249	D250	GND	D251
33	D252	GND	D253	D254
34	GND	D255	BPAW	GND
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				

POWER CONNECTOR PIN ASSIGNMENT				a b c d
a	b	c	d	
+5V	+VBP	0V	+3.3V	
+5V	0V	0V	+3.3V	A
+5V	0V	0V	+3.3V	
+5V	0V	+3.3V	+3.3V	C
+5V	0V	+5V	+3.3V	
+5V	0V	0V	+3.3V	D
+5V	0V	+V	+V	
+3.3V	+VBP	-V	-V	F

NOTES:
8 x 5V x 2A = 80W @ +5V
8 x 33V x 2A = 53W @ 33V
2 x 48V x 2A = 192W @ 48V
10 x 2A = 20A total on 0v return
for +5V, +33V, and +VBP
+VBP = +5V nominal during power on
+VBP = +2.1V to +5V during power off

Pinout shown is for the backplane connector, looking at backplane from front panel opening.

DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

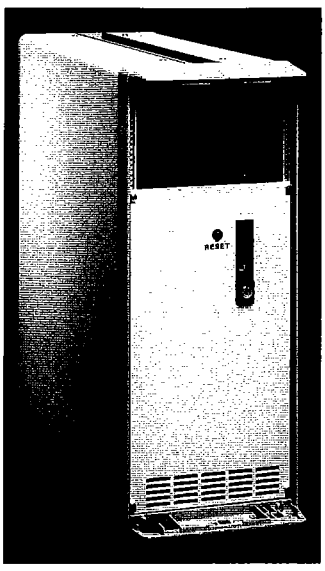
PART NUMBER INDEX

CROSS REFERENCE
PART NUMBER INDEX

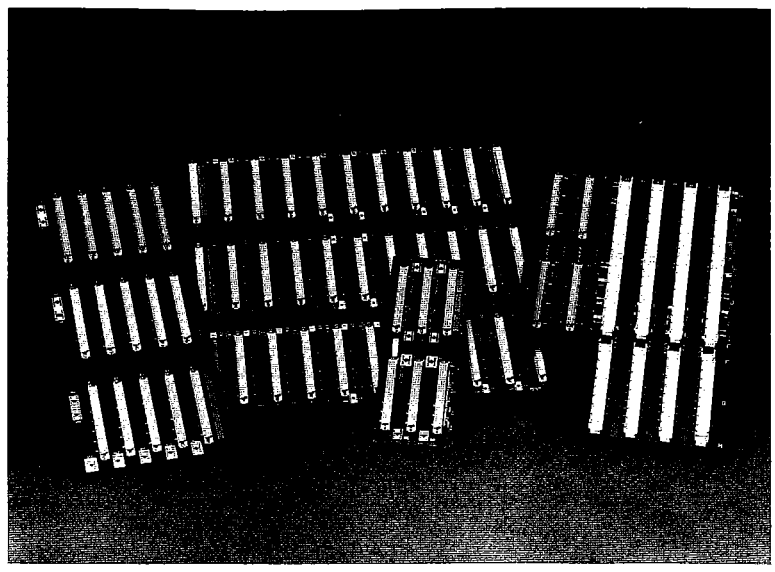
Product Series P/N	Product Catagory	Page
100	**Powered Enclosures**	
	102 - Power Rack	24
	110 - Horizontal	25
	121/131 - Vertical Full Encl.	25
	126/136 - Vertical Full Encl.	25
	129 - 9U VXI Vertical Full Encl.	25
	140 - 9U Vertical Full Encl.	25
	160 - Tower	25
200	**Subracks, 96-Pin**	18
300	**Subracks, SUN**	18
400	**Wire Wrap Boards 96-Pin/128-Pin/108-Pin PC-AT**	28-41
	450 Extenders 96-Pin	42
	455 Depth Extenders	43
	460 VXI With I.F. Logic + SMD	call factory for details
	470 FB+ With I.F. Logic + SMD	call factory for details
	480 Extenders 128-Pin	42
	490 Load Cards, Reading Voltage	43
	495 Load Cards, Reading Current	43
	Accessories	
	500 Wire Wrap Pins	44
	501 Solder Washers	45
	510 96-Pin Din Connector	45
	511 128-Pin Din	45
	512 108-Pin	45
	515 Power Lugs	45
	520 Ejectors	46
	530 Card Guides	46
	540 Front Panels	47
	541 Filler Panels	48
	542 Front Cover Panels	48
	543 6U/9U Adaptor With Front Panel/Ejectors	call factory for details
	545 6U/9U With A & C Rows of J2 Isolated	call factory for details
	546 Air Flow Panels	call factory for details
	550 Z Bar Kit	49
	560 Bus Bars	50-51
	570 Fan Tray	52
	575 Power Supply Tray	52
	580 Drive Bays	52
	590 Power Supply Mounting Bracket	52
	595 Fan Mounting Bracket	52
600	**Subracks, Hard METRIC**	18-23
800	**Wire Wrap Boards .093 Thick For Low Profile Pins**	28-41
900	**Vertical Cabinets**	53-54

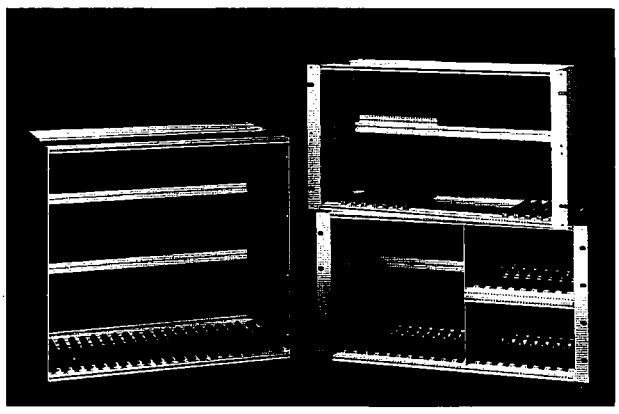
dataCon accepts VISA Mastercard

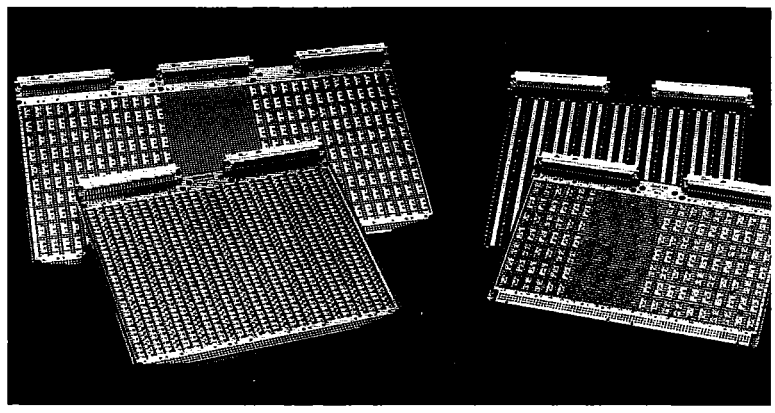
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

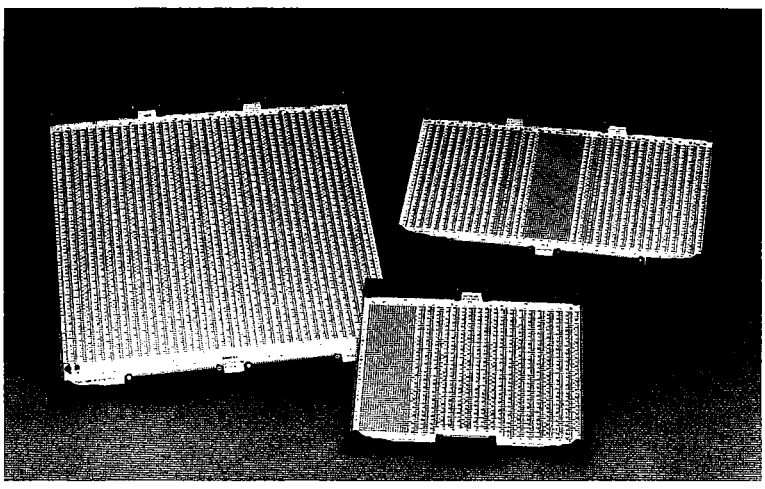


Pictured here are just a few of dataCon's full line of enclosures, subracks, backplanes and wire wrap boards.

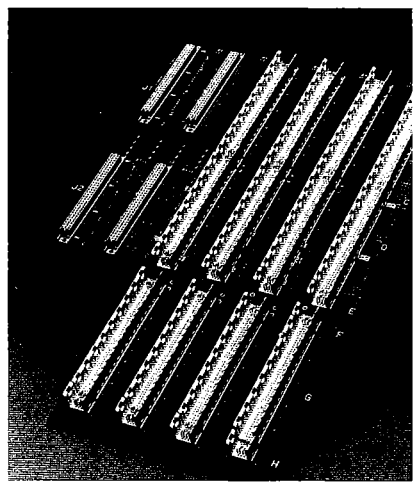


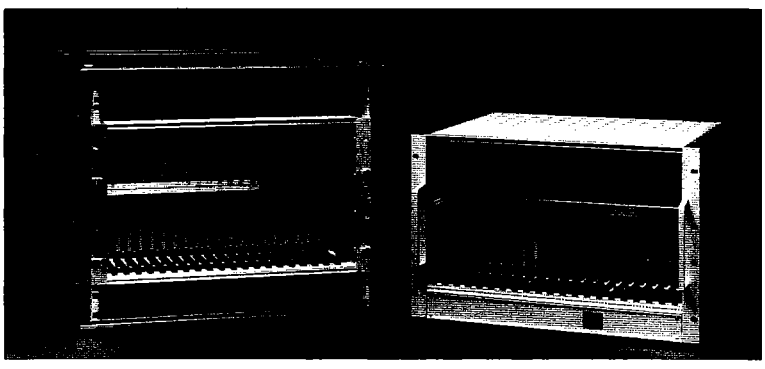


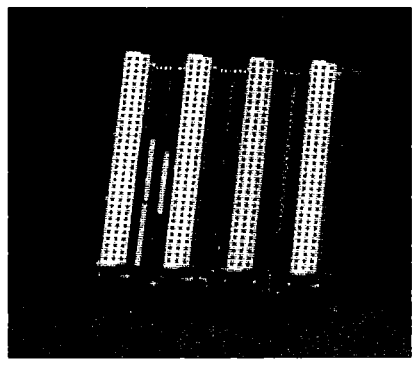




Make dataCon Your First Choice in Custom Designed Product.







Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com



DATACON
SYSTEMS
PRODUCTS

dataCon
60 Blanchard Road
Burlington, MA 01803
Tel: (617) 273-5800
Fax: (617) 273-4809

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP