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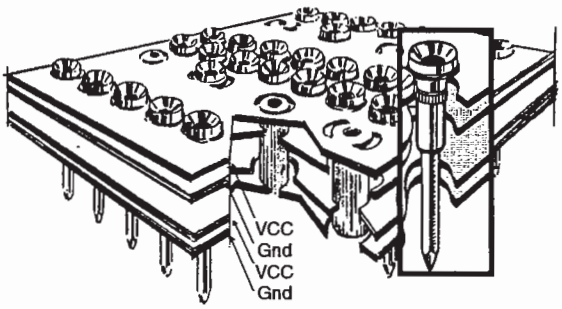
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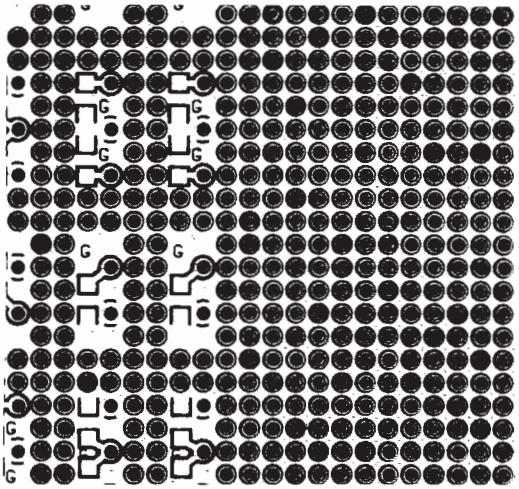
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Find the *dataCon / Augat VME616-01* at our website: ***Click HERE***

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.

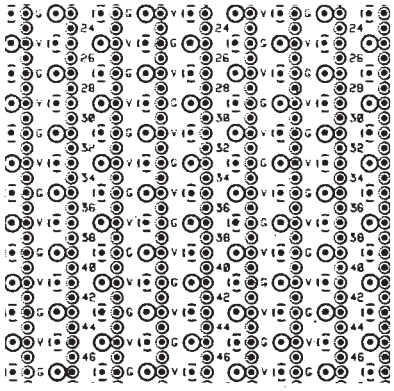
Delivery is dependent upon board availability, board size, complexity, number of wires and data provided.

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

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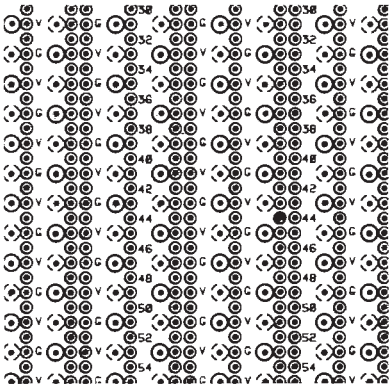
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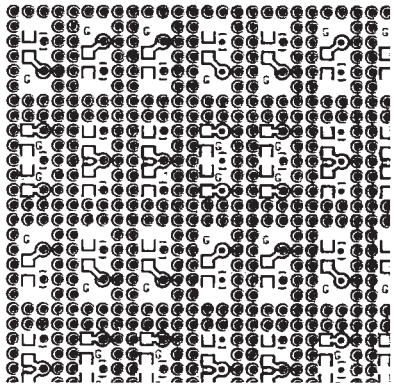
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RDU PIN PATTERN

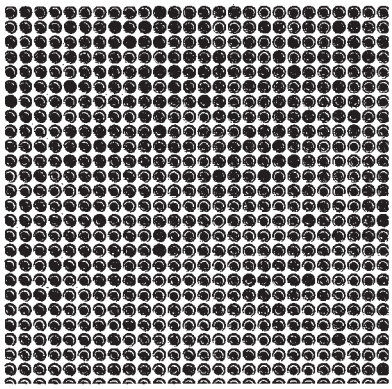
HDU PIN PATTERN





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.

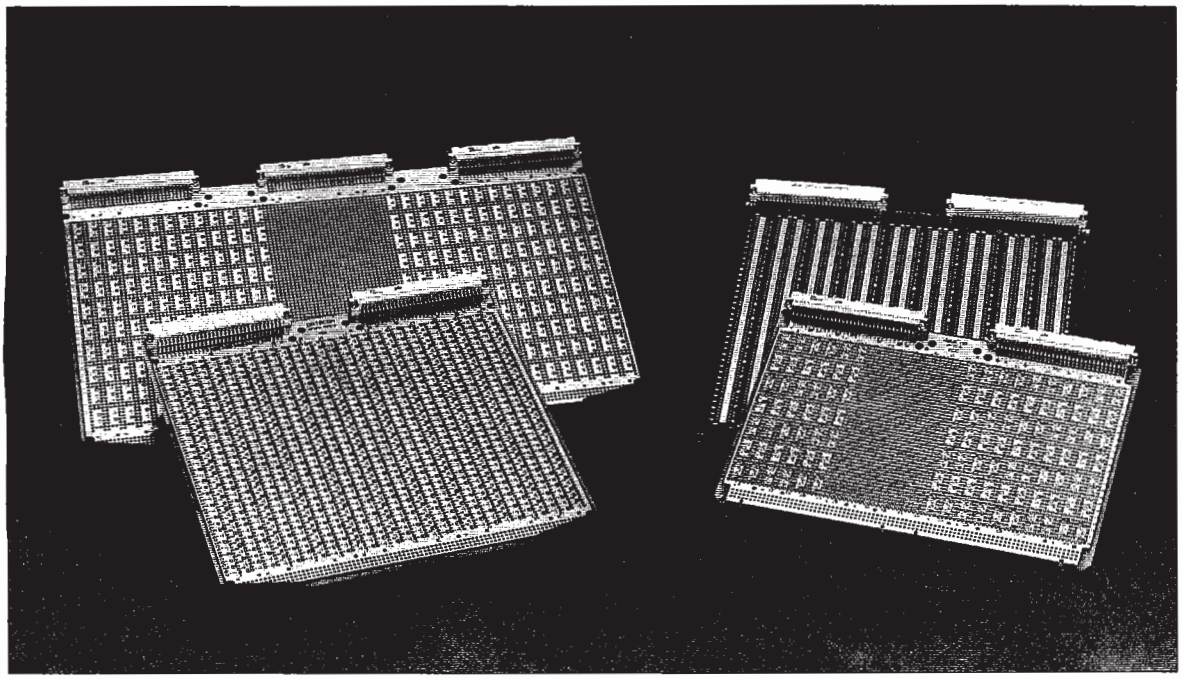
WIRE WRAP BOARDS

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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

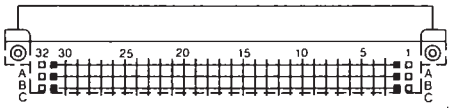
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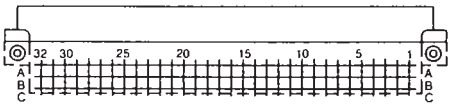
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Connector Pin Committments

Committed (6 Vcc and 6 GND)



Uncommitted



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 =

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

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

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96/128-PIN DIN W/W BOARDS

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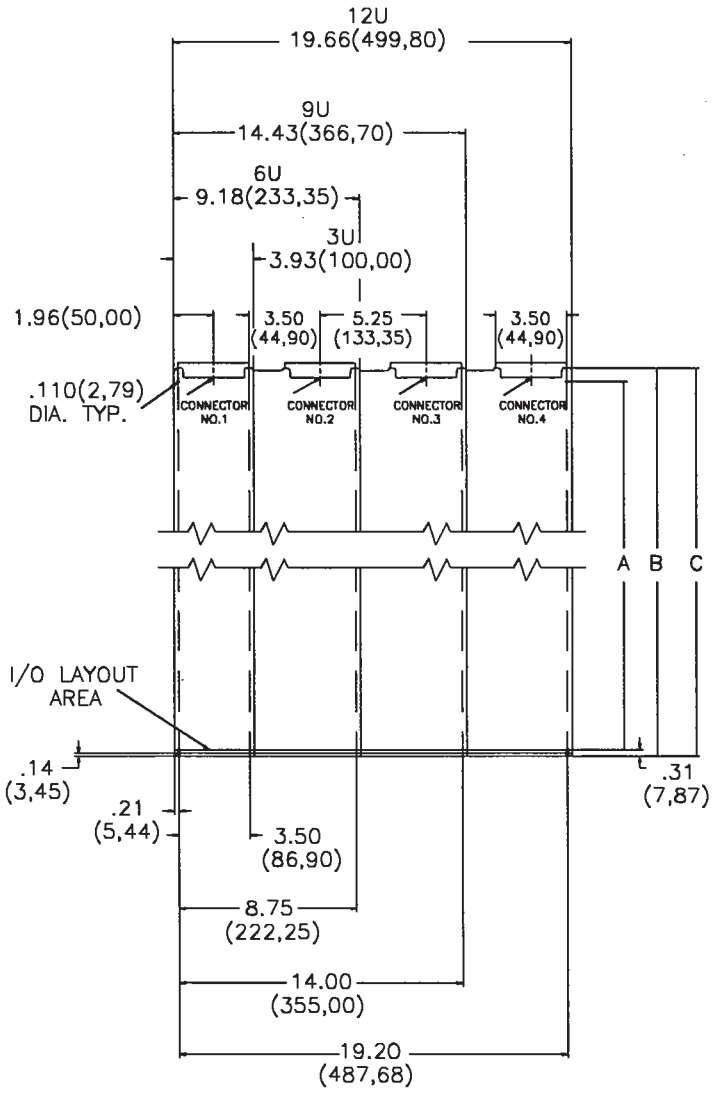
96/128 PIN WIRE WRAP BOARDS

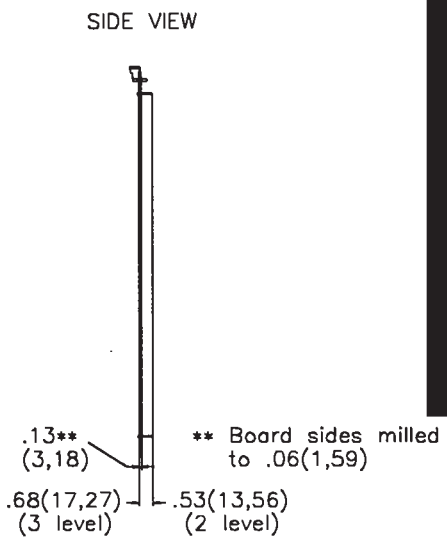
SIZE	BASE CARD NO.	PIN PATTERN	0.3", 16 PIN CAPACITY	0.6", 24 PIN CAPACITY	PGA CAPACITY	SMD CAPS
3U x 160mm	427AC	PGU	40	12	32 x 47	–
3U x 220mm	421AD	RDU	48	20	–	–
	422AD	HDU	72	5	–	–
	427AD	PGU	56	20	32 x 71	–
6U x 160mm	422BC	HDU	100	12	–	–
	424BC	HVU	100	42	–	–
	425BC	HVU w/PGA	110	42	26 x 49	88
	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

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96/128-PIN DIN W/W BOARDS

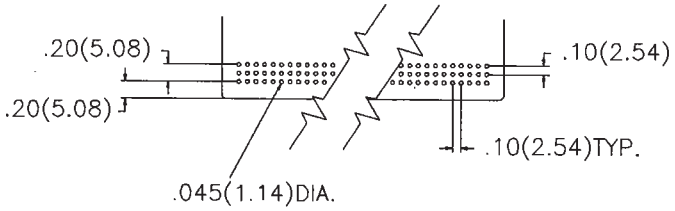




TYP. 96 Places for 3U
TYP. 255 Places for 6U
TYP. 411 Places for 9U
TYP. 573 Places for 12U

	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



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