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 *Verotec / APW 38-42640F* at our website: *Click HERE*

Eurocard extender boards

DOUBLE SIDED EXTENDER BOARDS

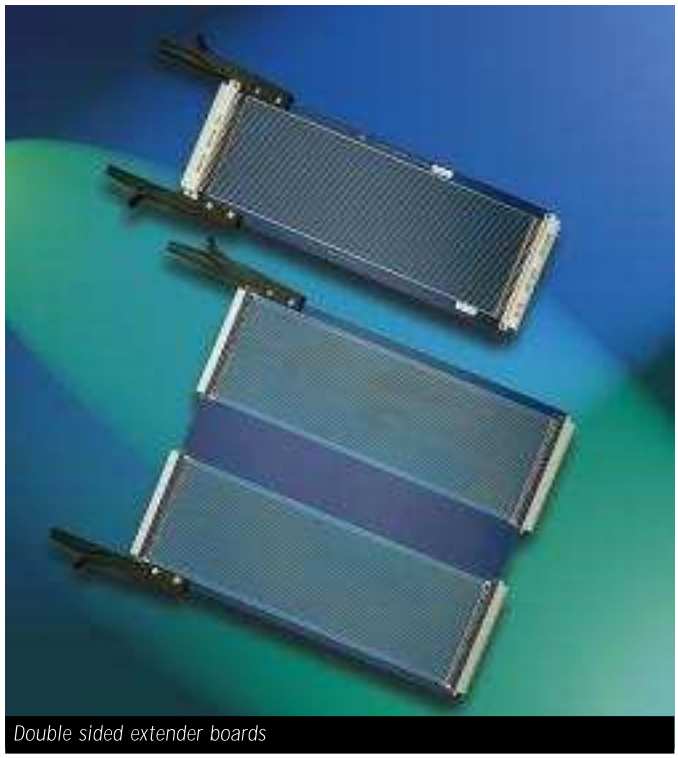
A range of double sided extender boards to enable testing of single and double height Eurocards, suitable for both 160 and 220mm deep frames, using DIN 41612 type B and C connectors. The extender board plugs directly into a subrack connector with the unique support/ejector mechanism at the front supporting the board under test.

Terminal assemblies (supplied with the boards), may be fitted to the board to allow easy attachment of scope probes typically for measuring voltage levels.

Note: This feature is not available on the 96/96 way extenders.

Features

- Eurocard compatible
- Suitable for 160 and 220mm deep boards
- DIN 41612 type B and C connectors
- Support/ejector mechanism
- Terminal assemblies for ease of testing (except 96/96 way versions)
- Solder resist coating to prevent solder bridging and prevent finger staining



Double sided extender boards

Contents of kit

Item/decription
Board (assembled with connectors)
2 Support/eject mechanisms
Terminal assemblies (where applicable)

Ordering information

Description: Double sided extender boards

For frame height	Connectors fitted plug	socket	type	Order code
3U	1 off	1 off	64/64	09-3817H
6U	2 off	2 off	64/64	09-0106D
3U	1 off	1 off	64/96	09-3865K
6U	2 off	2 off	64/96	09-0108E
3U	1 off	1 off	96/96	09-2459K
6U	2 off	2 off	96/96	09-2460E

Note: hole grid 2,54 x 2,54mm hole dia. 0,9mm
Note: 3,81mm gap on double height boards

60mm DAUGHTER BOARD EXTENDER

A multilayer extender fitted with 96/96 way plug and 96/96 way socket suitable for adapting a 160mm deep daughter board to fit into a 220mm deep card slot or a 220 deep daughter board to fit into a 280mm deep card slot. The extender is 60mm deep so that front panels are positioned correctly.

Ordering information

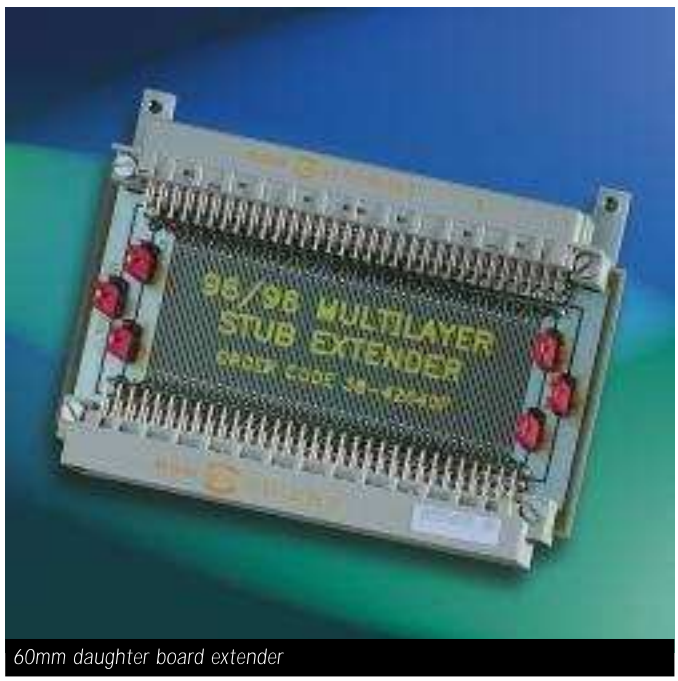
Description: 60mm daughter board

Size	Order code
60 x 100	38-42640F

Board specification

Board type	Epoxy glass
Plated through hole	BS4584 part 16
Copper thickness to outer layers	38µm
Plated copper	37µm
Tin lead	5µm
Total	80µm
Copper thickness inner layers	38µm

Note: Bare boards are UL 94 V-0 recognised components file number E116551. Bare boards are approved to BS9762.



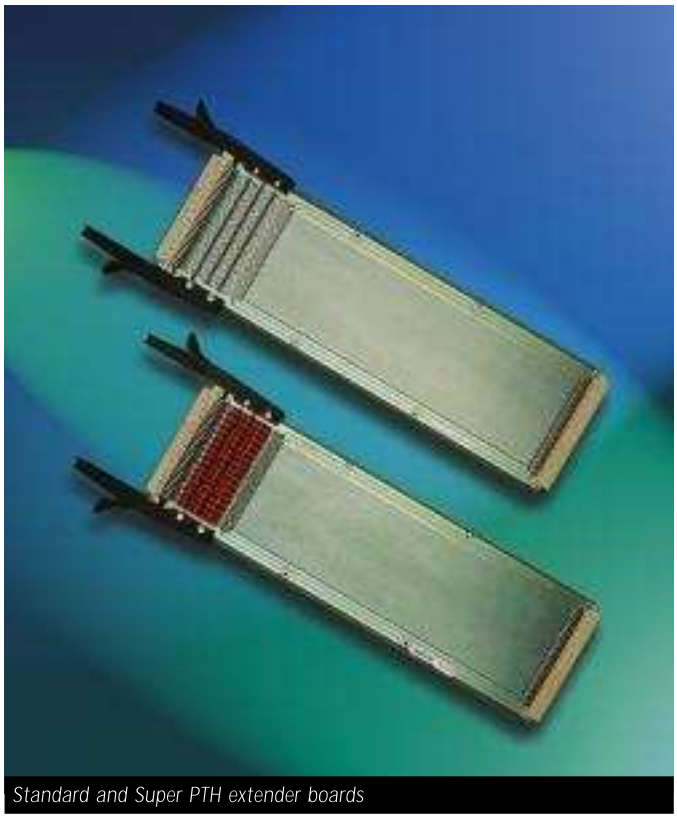
60mm daughter board extender

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

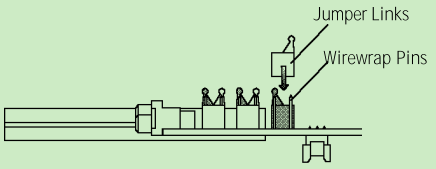
Eurocard extender boards

STANDARD AND SUPER PTH EXTENDER BOARDS

A range of PTH extender board assemblies available in two combinations of standard and super. The standard range, in either 64/64 or 96/96, is assembled with front and rear DIN connectors and supplied complete with ejector arms. The super version, in 96/96 format only, is supplied as per the standard format but also including gold plated wirewrapping pins, jumper links and logic analyser reverse DIN connector. The boards provide a high degree of mechanical flexibility and have many electrical advantages over their double sided predecessors.



Standard and Super PTH extender boards



Features

- Expandable height in multiples of 3U, i.e. 3U, 6U, 9U etc. is achieved by simply adding a standard divider plate assembly as required
- The ability to mix different types of extenders on 3U upwards to suit a particular bus system
- Suitable 160 and 220mm deep systems
- Maximum track widths with a copper plating thickness of 70µm in order to minimise voltage drop
- DIN connector outer rows 1abc, 2abc, 31abc and 32abc have extra wide tracks to match power rails on most standard bus systems, i.e. APW Microbus range
- Voltage and current measuring facilities available by either simply breaking tracks and pinning for the addition of jumper links (see illustration) or using the fully assembled super version
- Standard versions provide the facility for mounting a backplane stub terminator or logic analyser to the side of the board as required. This is supplied complete with the super version.
- Provides support/eject mechanism to ensure the daughter board remains captive within the guides when ejecting and that the correct connector breaks when dismantling
- Solder resist coated to prevent solder bridging of joints and finger staining

Ordering information

Description: PTH Extender boards	Order code
64/64 Standard PTH extender board	188-29937F
96/96 Standard PTH extender board	188-27573A
96/96 Super PTH extender board	188-39011D
Extender board conversion kit	188-27542E

Board specification

Board type	Epoxy glass
Plated through hole	BS4584, EP-GC-Cu FR4
Max. working temp.	155°C
Nom. board thickness	1,6mm
Laminated copper thickness	35µm or 1oz/ft² or 305g/m²
Plated copper	25µm
Tin lead	10µm
Total	70µm

Note: Bare boards are UL 94 V-0 recognised components file number E116551. Bare boards are approved to BS9762

Accessories

Jumper links, wirewrapping pins, reverse DIN connector.

Ordering information

Description: Accessories	Order code
Jumper links Red/10	188-29988E
Jumper links Black/10	188-29989B
Wirewrapping pins/100	188-29990C

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

Eurocard extender boards

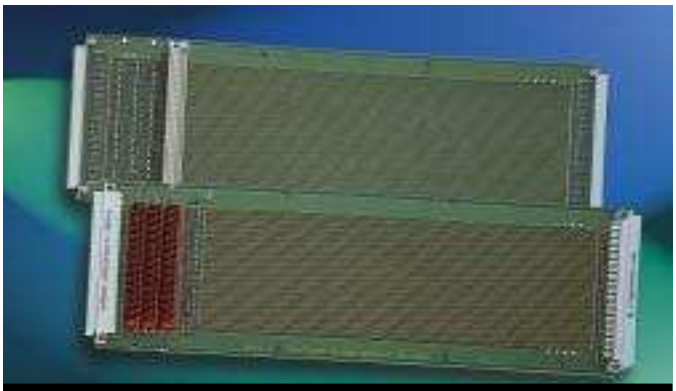
MULTILAYER EXTENDERS

This multilayer extender board offers the engineer the best possible guarantee against crosstalk due to the 0V guarding being positioned on three sides of each individual signal line.

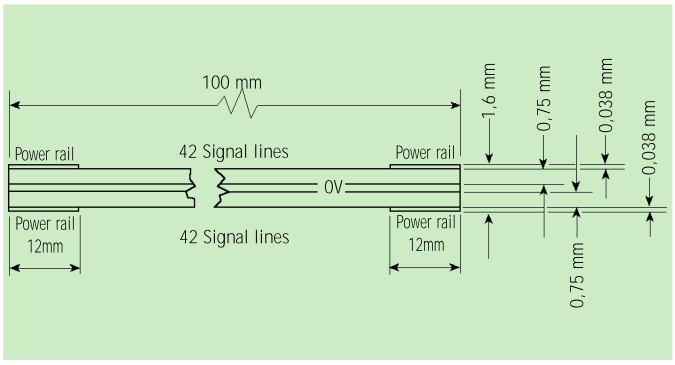
The multilayer construction features a control 0V ground plane inner layer with a latticed trace around all jumper pin positions for maximum shielding. The extender board features 42 signal lines on both sides of the board which are protected by an 0V guard track between each pair of signal lines. The guard track is connected to the 0V inner layer plane at both ends by the use of via holes.

The power rails on the outer edges of the board feature a cross patching facility which uses jumper links in order to give the user complete flexibility when trying to match a particular backplane system. The board is supplied completely assembled with connectors at both ends.

Power rails are committed to pins 1abc, 2abc, 31abc and 32abc. If necessary any of these power rails may be connected to the 0V inner plane by use of cross patching jumper links.



Multilayer extenders



Features

- 3 layer bonded multilayer construction with a 0V ground plane sandwich between layers
- Patented 0V guard tracking between all signal lines
- Flexible power rail construction with up to four separate Vcc rails and a 0V return plane
- Voltage and current measuring facilities are available by use of wirewrapping pins and jumper links which are fully assembled to the board
- Logic analyser or backplane stub terminator position on board
- Expandable to 3U, 6U, 9U etc. in many combinations using the compatible range of PTH and super PTH extender boards
- Suitable for 160 and 220mm deep systems
- Compatible with multilayer Microbus backplanes and PTH backplanes
- Support/eject mechanism to ensure that the daughter board remains captive within the guides when ejecting and that the correct connector breaks when dismantling

Ordering information

Description: Multilayer extender board	Order code
96/96 multilayer extender board	38-39084J
Extender board conversion kit	188-27542E

Board specification

Board type	Epoxy glass
Plated through hole	BS4584 part 16
Copper thickness to outer layers	38µm
Plated copper	37µm
Tin lead	5µm
Total	80µm
Copper thickness inner layers	38µm

Note: Bare boards are UL 94 V-0 recognised components file number E116551. Bare boards are approved to BS9762.

Characteristics impedance

The separation of signal layers to the 0V ground plane is 0,74mm and the signal track width is 0,3mm which gives a theoretical characteristic impedance of 94Ω with a Zo tolerance of ±5%.

Note: Zo = 94Ω ±5% excluding all holes in the boards
Zo = approximately 80Ω including connector and jumper pin holes
Zo = approximately 65Ω when active daughter board is in position.

Note: The guard tracking arrangement is manufactured under licence from University College, London.

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

Eurocard extender boards

MULTILAYER UNCOMMITTED EXTENDER BOARDS

These extender boards have been designed to offer the greatest flexibility in the arrangement of power, ground and signal lines, yet afford the engineer the best possible protection against crosstalk by the use of a patented method of 0V guard tracking. The 96 signal lines are positioned over three layers with the facility to commit any line to any voltage. The remaining layers are committed to 0V and Vcc planes, thus minimising voltage drop over the length of the extender. These extenders are supplied completely assembled with connectors at each end plus wirewrap pins, jumpers and a reverse DIN connector for the fitment of a "stub" terminator or a logic analyser.
Signal lines can be committed to either 0V or Vcc by using the Commitment strap shown below. By fitting the tag into the holes in the guard track (round pads) adjacent, the connector pattern will commit the required pins to 0V. Conversely, rotating the strap 180° and fitting the tag to the square padded holes will commit to Vcc. This process is to be repeated at both ends of the extender.



Multilayer uncommitted extender boards

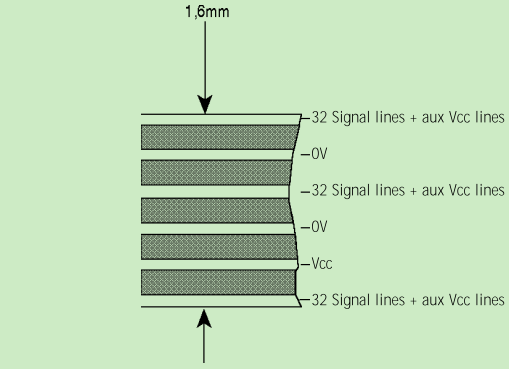
Features

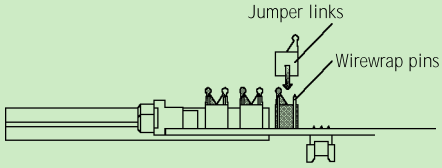
- 6 layer construction providing full voltage and ground planes
- Patented 0V guard tracking between all signal lines
- Full 0V and Vcc planes plus two auxiliary Vcc rails
- Suitable for 220 and 280mm deep subracks
- Total flexibility of voltage and ground committment
- Signal line interrupt facilities by means of wirewrap pins and jumper links which are pre-fitted to the board
- Reverse 96/96 DIN connector to accept stub terminator or logic analyser
- Support/eject mechanism to ensure that the correct connector breaks when dismantling and that the daughter board remains captive within the guides when ejecting
- Expandable in height by multiples of 3U. This is acheived by means of an extender board conversion kit

Board specification

Dielectric	Epoxy glass BS4584 EP-GC-Cu3 FR4
Nom. thickness	1,6mm
Base copper thickness	35µm
Finish	
Plated copper	25µm average
Tin lead	5µm nominal
Total	68µm outer layers only

Note: bare boards are UL 94 V-0 recognised components file number E116551. Bare boards are approved to BS9762.
The guard tracking arrangement is manufactured under licence from University College, London.





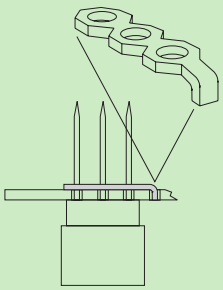
Ordering information

Description: Uncommitted extender boards

Size	Order code
220mm deep Un-committed extender	38-63623C
280mm deep Un-committed extender	38-61486J
Extender board conversion kit 220mm	188-27542E
Extender board conversion kit 280mm	188-39120J

COMMITMENT STRAP

These commitment straps drop over the tails of a DIN connector, committing a row of pins to a common voltage. The tag on the end of the strap fits into the PTH hole which is assigned to the voltage or ground plane on the un-committed backplane or un-committed extender. The straps can be cut to size, ensuring only the required pins are committed. Commitment straps are supplied in packs of 100.



Ordering information

Description: Commitment straps	Order code
Pkt. 100	22-301331B

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