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 180o 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.

Features

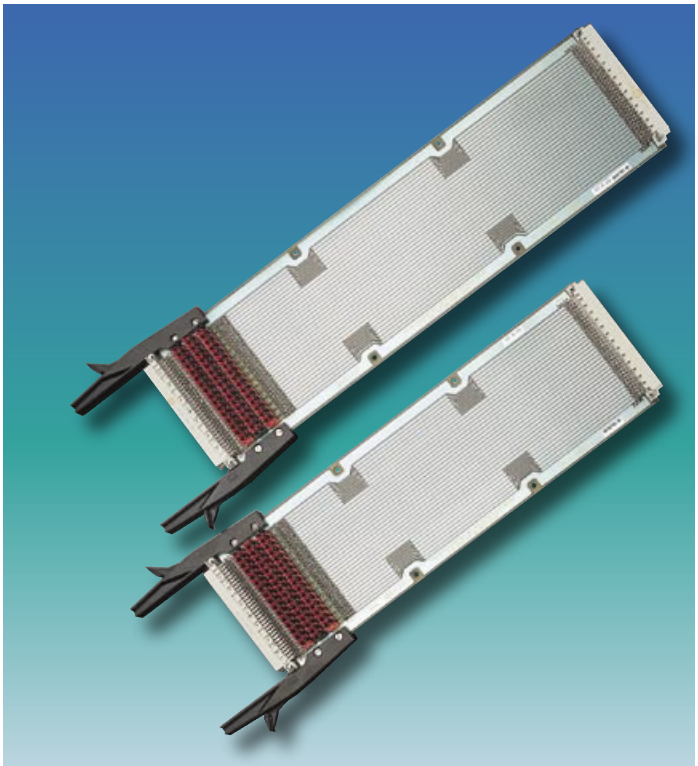
- 6 layer construction providing full voltage and ground planes
- Patented 0V guard tracking between all signal lines
- Full 0V and Vcc planes plus two auxiliary Vcc rails
- Suitable for 220 and 280mm deep subracks
- Total flexibility of voltage and ground committment
- Signal line interrupt facilities 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.

Multilayer Uncommitted Extender Board	Ordering information
Description	**Order code**
220mm deep Un-committed extender	**38-63623**
280mm deep Un-committed extender	**38-61486**



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