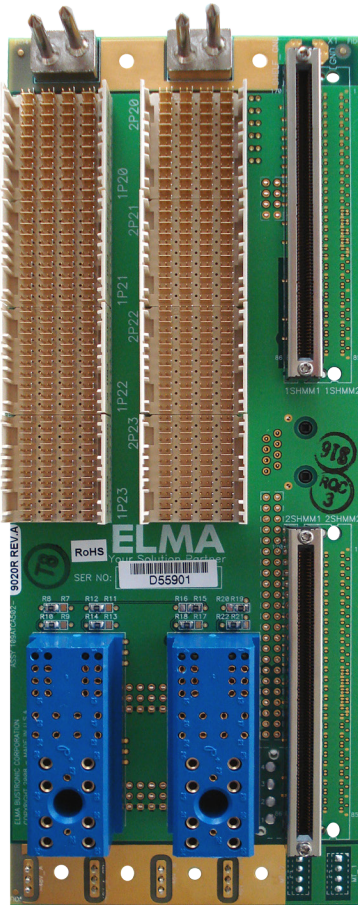


5U 2-Slot ATCA Backplane

AdvancedTCA Mesh Backplanes



Description

The Elma Bustronic Mesh AdvancedTCA (ATCA) backplanes are compliant to the PICMG 3.0 Rev 3.0 specification. The experts in high-speed differential pair routing, Elma Bustronic's ATCA backplanes have been simulated and characterized by our signal integrity lab to optimize performance. The 2-slot ATCA is a switchless 15X Replicated Mesh with point-to-point links between the slots. However, a 1X Mesh can also be implemented on the 2-slot.

Features

- Compliant to PICMG 3.0 Rev. 3.0 specification
- Gigabyte/Terabyte per second bandwidth per shelf
- Connections to IPM Sentry shelf manager
- Controlled impedance stripline design
- Mesh Topology (Up to 15X mesh topologies are implementable)
- Pluggable shelf manager slots using MicroTCA.0 connectors

Board Specifications

- 12 layers
- 1/2 oz. copper power and ground
- .137" thick PCB, PCB UL recognized 94V-0, FR-4 or equivalent

Mechanical Specifications

- 3.122" wide x 8.149" height

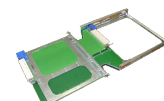
Related Products and Applications

Platforms to meet NEBS or (ETSI) requirements for carriers and telecom equipment broadband networks

- Application and media servers, IPTV video-on-demand delivery and billing platforms
- Wireless Communications such as 2G, 3G and 4G (LTE and WiMAX) radio access networks (RAN)
- Wireline Communications such as media gateways, service provider routers and switches, and signaling gateways
- Applications requiring a mix of I/O options, high compute density and enhanced graphics

Communications platforms and servers for deployment in mobile and harsh environments

- Field deployed critical communications
- Mobile command centers



- Rackmount, desktop, and custom chassis platforms
- Load boards convection or conduction cooled
- Rear Transition Modules for I/O
- Blade level networking boards (Ethernet, PCI Express)
- Ruggedization programs

ATCA

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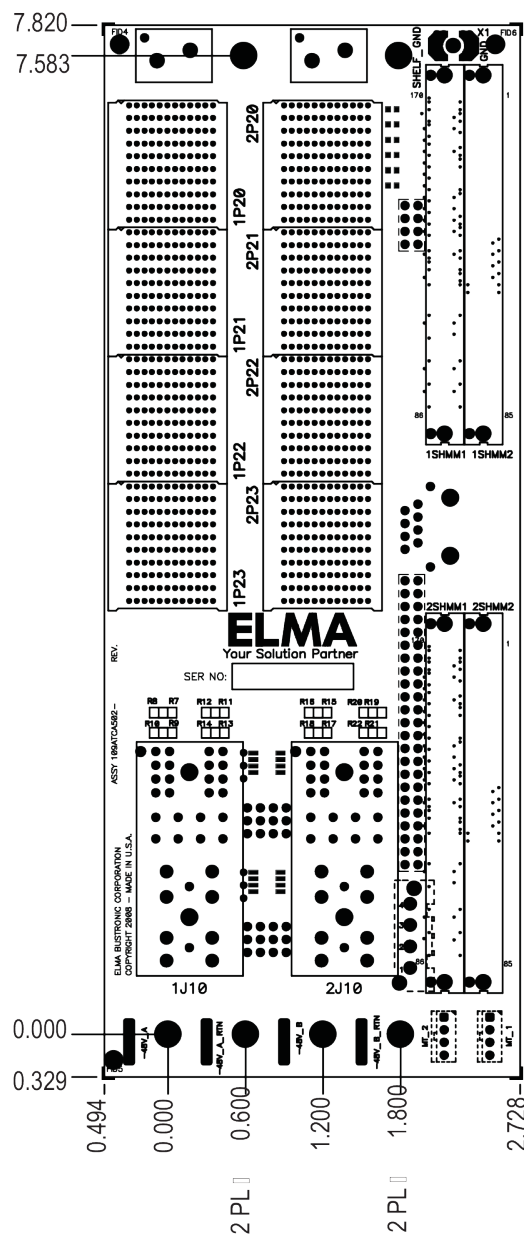


PICMG



Backplanes

Line Drawing



Order Information

| Height | Total Slots | Description | Part Number |
|--------|-------------|--|------------------|
| 5U | 2 | 2 slot Mesh Backplane | 109ATCA502-300X |
| 5U | 2 | 2 slot Mesh with uTCA connector for SHMM | 109ATCA502-9020R |