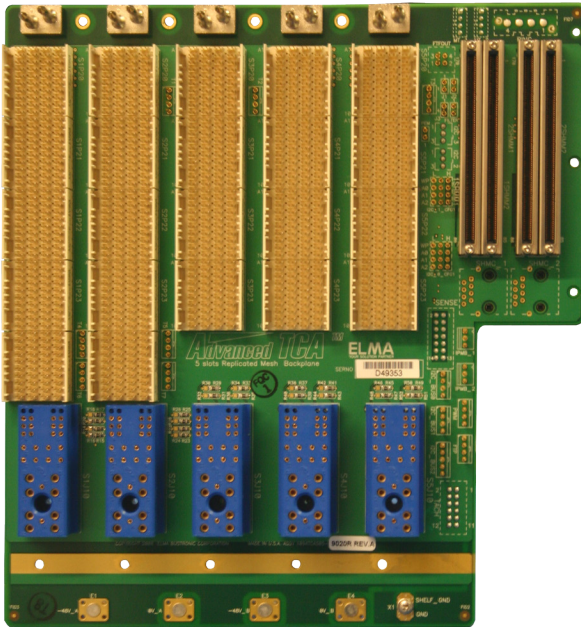


5U 5-Slot ATCA Backplane AdvancedTCA Mesh Backplanes



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 5-slot is a 3X Replicated Mesh. However, Dual Star, 1X and 2X Meshes can all be implemented across the 5-slot backplane.

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
(dual star and 1X, 2X, 3X Mesh topologies are implementable)
- Pluggable shelf manager slots using MicroTCA.0 connectors
(applies to part# 109ATCA505-9020R only)

Board Specifications

- 18 layers

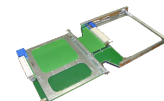
Related Products and Applications

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

5U 5-Slot ATCA Backplane

AdvancedTCA Mesh Backplanes

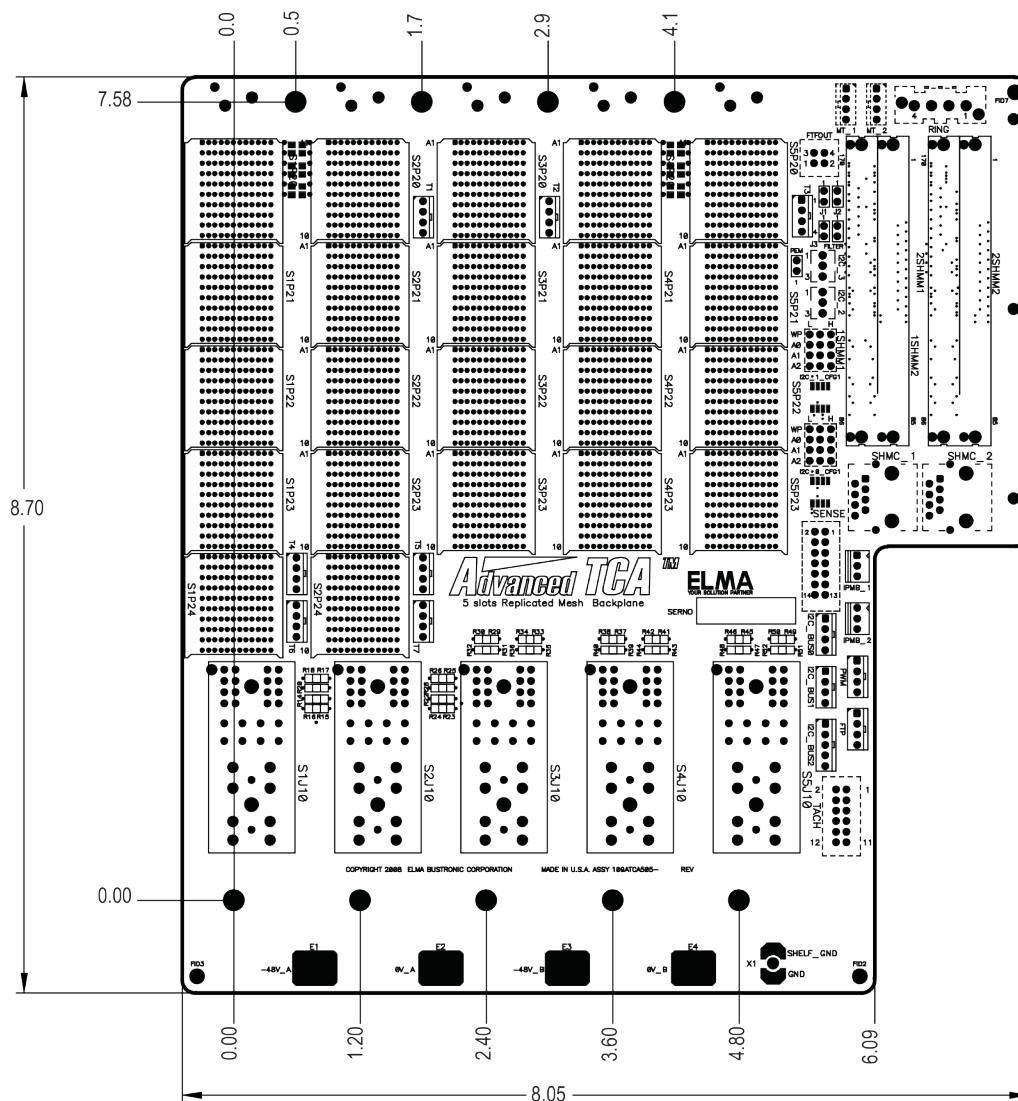


PICMG



Backplanes

Line Drawing



Order Information

Total Slots	Width	Height	PCB Thickness	Description	Part Number
5	6.710"	8.750"	0.185" +/-10%	5 slot Mesh Backplane	109ATCA505-300XR
5	8.05"	8.7"	0.150" +/-10%	5 slot Mesh with uTCA connector for SHMM	109ATCA505-9020R