

# 5U & 7U 14-Slot ATCA Backplanes

## AdvancedTCA Dual Star Backplanes

### Description

Elma's 14-slot Dual Star AdvancedTCA (ATCA) backplanes are compliant to the PICMG 3.0 Rev.1.0 specification. The experts in high-speed differential pair routing, Elma's ATCA backplanes have been simulated and characterized by our signal integrity lab to optimize performance.

### Features

- Compliant to PICMG 3.0 Rev. 3.0 specification
- Gigabyte/Terabyte per second bandwidth per shelf
- Connections to IPM Sentry shelf manager
- EasyPlug™ and standard versions available
- Fourteen slot Dual Star topology - 2 Fabric slots, 12 node slots
- Dual shelf manager connectors in slot 0, allows full 14 slots

### Board Specifications

- 5U: 14 layers, 1oz signal power and ground, PCB 0.148" thick
- 7U: 12 layers, 0.5oz signal power and ground, PCB 0.125" thick
- PCB UL recognized 94V-0, FR-4 or equivalent

### Mechanical Specifications

- 17.55" wide x 9.35" height (5U)
- 16.79" wide by 12.27" height (7U)



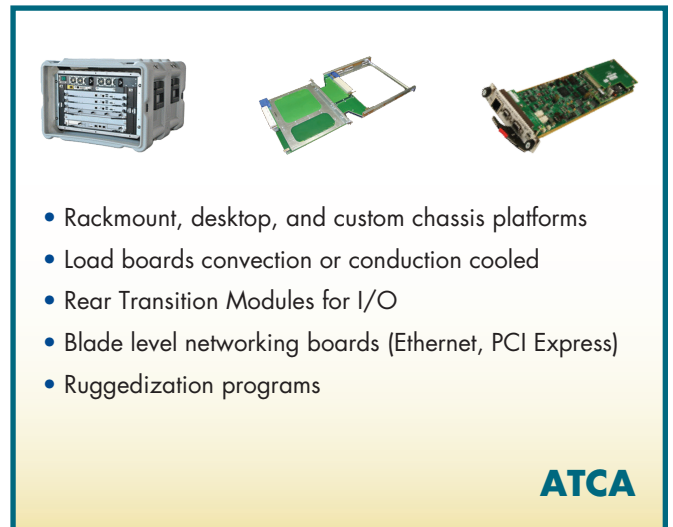
## Related Products and Applications

### 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 & 7U 14-Slot ATCA Backplanes

## AdvancedTCA Dual Star Backplanes

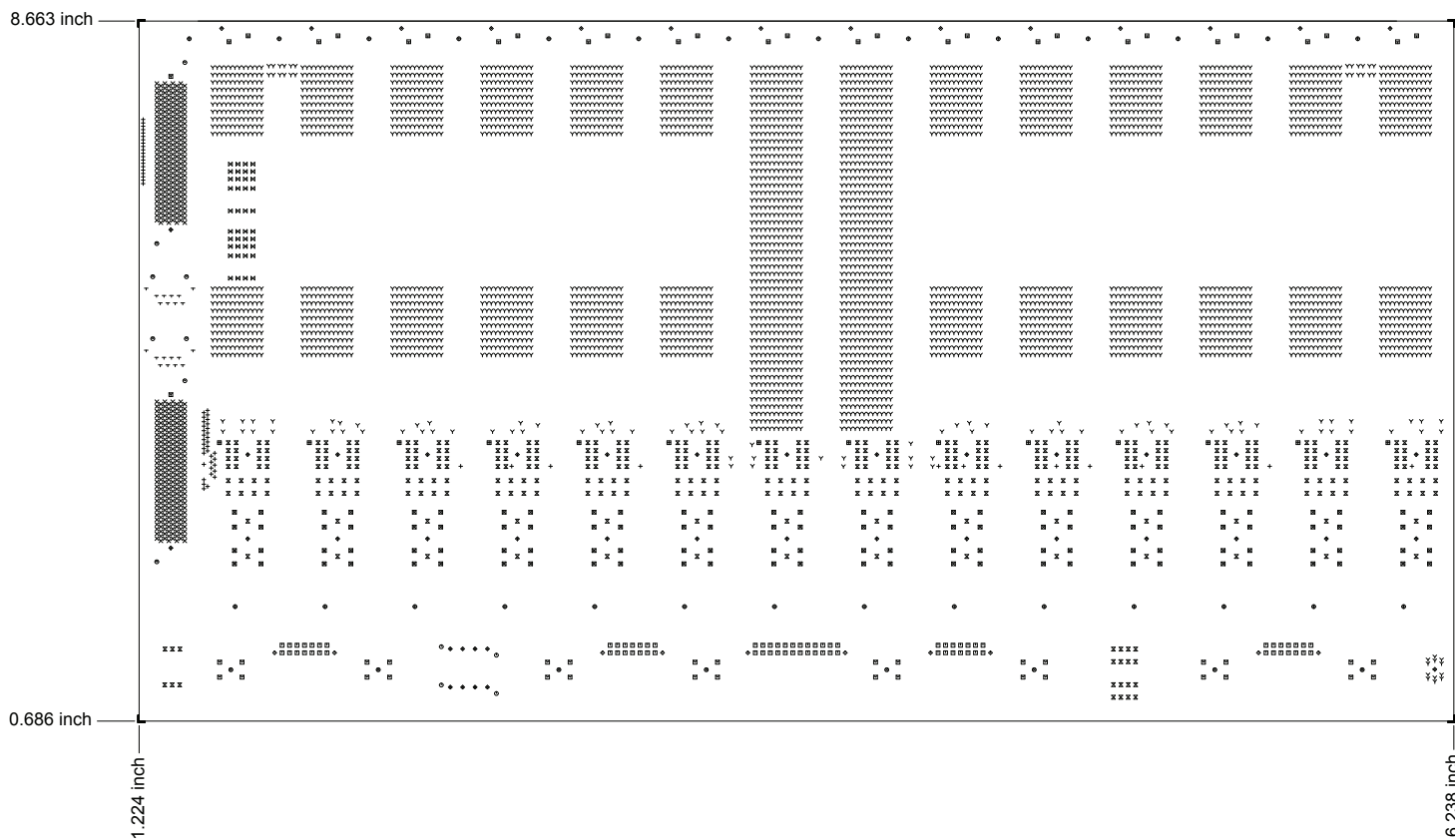


PICMG



Backplanes

### Line Drawing



### Order Information

Height	Total Slots	Fabric Slots	Node Slots	Part Number
5U	14	2	12	CONTACT FACTORY
7U	14	2	12	109ATCA714-000XR