

INTRODUCING

56G MezzaWave CONNECTORS AND CABLE ASSEMBLIES

- **56G PAM4 performance with optimized signal integrity**
- **Up to 560 pins in open-pin-field architecture**
- **BGA technology supports high interconnection density**



TE Connectivity's 56G MezzaWave connectors deliver high-performance connectivity for advanced systems, supporting up to 56 Gbps PAM4 with exceptional signal integrity. Its flexible design offers multiple pin counts, stack heights, and drop-in compatibility for seamless upgrades. Rugged and reliable, MezzaWave connectors power demanding applications from edge AI to aerospace, meeting VITA/ANSI standards for optimized performance.

INDUSTRIES

- Edge Computing
- Telecommunications & Networking
- Industrial Automation & Robotics
- Aerospace & Defense
- Test & Measurement
- Medical
- Automotive Electronics

APPLICATIONS

- Field-Programmable Gate Array (FPGA) Based Systems
 - Electronic Design Automation (EDA)
 - Multiple-Input, Multiple-Output (MIMO) Systems
- High-Speed Data Acquisitions
- Modular Server Designs
- Carrier Boards and Mezzanine Modules
- Ruggedized Embedded Systems

KEY BENEFITS

- Designed to handle data rates up to 56 Gbps PAM4, helping maintain signal integrity in high-density systems.
- Multiple pin counts, stack heights, and a 1.27 mm pitch help to optimize footprint and routing.
- 1.6A dedicated power pins integrated in the connector, helping to reduce component count.
- Drop-in compatibility enables direct replacement of existing components—reducing redesign effort, time, and cost.
- Potential to save up to 20% -30% cost with ball grid array (BGA) technology.
- Solder ball terminations help to enable better connection.
- Rugged mechanical design supports consistent performance across edge AI, data center, industrial automation & robotics, aerospace & defense applications.
- Meets VITA 57.1 — FMC and VITA 57.4 — FMC+ standards for interoperability and system integration.

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