

STRADA WHISPER ULTRA BACKPLANE CABLES & CONNECTORS

HIGH-DENSITY CABLED BACKPLANE CONNECTIVITY FOR NEXT-GENERATION AI INFRASTRUCTURE

As AI platforms scale toward 336G, higher bandwidth, and greater compute density, interconnect density is becoming a system constraint. STRADA Whisper Ultra combines high-density cabled backplane architecture with high-speed signal integrity, modular construction, and mechanical robustness to help AI infrastructure teams deliver more bandwidth in the same system footprint. Targeted for 224G PAM4 and 336G PAM8 architectures, STRADA Whisper Ultra uses a 92-ohm architecture to support Ethernet and PCIe Gen 7 applications, with a fully shielded design that helps reduce crosstalk in high-speed systems.

Built for density. Designed for performance. Ready for 336G and beyond.

TE's deep backplane expertise, combined with an AI-scale design mindset, positions STRADA Whisper Ultra Backplane Cables and Connectors to meet the next wave of platform requirements in which density, speed, and manufacturability must advance together.

FEATURES & BENEFITS

High Density

- Delivers double the density compared to previous generation backplane connectors
- Helps protect rack-level space for compute, power, and cooling
- Enables AI platform teams to scale bandwidth without increasing the system footprint

Mechanical Efficiency

- Finger protection for male pins prevents broken pins during handling and installation
- Low-profile staggered differential pair arrangement and cablet architecture helps preserve space in dense systems
- Lower mating force supports easier assembly
- Light press-fit design on board-mount connectors enables simplified installation

Modular Architecture

- Cablet and housings can be scaled across multiple configurations
- Supports architecture flexibility for system-specific or hyperscaler-specific designs
- Common platform approach reduces design rework and speeds up customization

System Scalability

- Supports 27-32 AWG foam-extruded cable options to balance density and reach
- Helps system designers align density, reach, and performance within a single interconnect family
- Designed for scalable AI infrastructure deployments

TECHNICAL SPECIFICATIONS

Electrical

- Targeted for 224G PAM4 and 336G PAM8 architectures
- 92-ohm design for Ethernet and PCIe Gen 7 applications
- Supports frequencies up to 75 GHz
- Fully shielded architecture for improved crosstalk and return-loss performance

Mechanical

- Keyed mating interface
- Modular cablet-and-housing architecture
- Supports 27-32 AWG foam-extruded cables
- 1.0 mm demate support without signal integrity degradation

Environmental

- Operating temperature: -40°C to +105°C

APPLICATIONS

- AI training platforms
- AI inference infrastructure
- GPU servers and accelerators
- Hyperscale cloud systems
- Ethernet switching platforms
- PCIe Gen 7 architectures
- High-density cabled backplane systems

ORDERING INFORMATION

This product family is offered as a custom solution. Please contact TE Connectivity for design-in support and order inquiries.

TE Connectivity
Digital Data Networks

te.com/stradawhisper

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