

HighPoint Launches Custom Cable Design and Manufacturing Services for Enterprise Solutions

June 2025 — Fremont, CA — HighPoint's custom cabling design and manufacturing services sharpen our customers competitive edge, expanding solution portfolios to rapidly address evolving hardware infrastructure of enterprise computing applications. Tailored for professional system integrators and solution providers, this initiative empowers clients to overcome hardware interoperability challenges and deliver bespoke connectivity solutions for demanding environments.

Core Services

HighPoint's cable design and manufacturing services bridge the gap between unique project requirements and industry-standard hardware ecosystems. By collaborating closely with global connectivity partners, we enable clients to:

- **Customize cables** for niche applications, specialized hardware, or compliance-driven specifications.
- **Modify existing cabling solutions** to meet project-specific needs, such as non-standard lengths, angled connectors, or environmental certifications.
- **Accelerate time-to-market** through streamlined design qualification, ensuring compatibility with target hardware platforms and regulatory standards.

Key Solutions Offered

● Custom Cable Design Flexibility

HighPoint's engineering team delivers tailored connectivity for:

HighPoint Solutions Integration: Optimized cabling for PCIe expansion cards, storage Storage backplanes and drive chassis, and external GPU enclosures.

Industry-Standard Devices: Support for NVMe, SAS/SATA, USB, Thunderbolt, and PCIe-based systems.

Unique Interface Requirements:

- Custom cable lengths
- Specialized connectors (e.g., right-angle, 45-degree, or non-standard pin configurations).
- Material-specific coatings (e.g., fire-retardant, high-flex, or temperature-resistant insulation).

● Backplane & Expansion Connectivity

Storage and PCIe Expansion: Direct cabling solutions for storage media, backplanes, and riser cards, ensuring high-bandwidth, low-latency data transfer.

Ruggedized Designs: Reinforced cabling for harsh environments, including industrial, military, or automotive applications.

● Compliance & Certification Support

Assist customers in qualifying designs for certification standards (e.g., RoHS, UL, MIL-STD).

Validate cable performance in target hardware ecosystems (e.g., compatibility with specific motherboards, enclosures, or backplanes).

- **Industry-Standard Connectivity Support**

HighPoint's portfolio aligns with leading-edge interface specifications, ensuring seamless integration into existing infrastructure:

NVMe/SAS/SATA: Solutions for storage arrays and enterprise servers.

PCIe Expansion: Custom cabling for Gen4/Gen5 riser cards and backplanes.

SlimSAS/SFF-8639: Optimized for high-density SAS/SATA storage deployments.

Thunderbolt/USB: Ultra-fast peripheral connectivity for workstations and edge devices.

Custom Hybrid Solutions: Combining multiple interface standards into a single cable assembly.

- **Target Applications**

Data Center & Enterprise Storage: High-density NVMe/SAS backplane cabling for rackmount servers.

AI/ML Systems: PCIe Gen5 expansion cabling for GPU clusters and accelerator cards.

Industrial IoT: Ruggedized, certified cables for factory automation and edge computing nodes.

Defense & Aerospace: Mission-critical connectivity with extreme environmental resilience.

Consumer Electronics: Bespoke cabling for premium peripherals and custom hardware builds.

In Summary

In a world where connectivity defines performance, HighPoint's custom cable design and manufacturing services provide the missing link for system integrators seeking innovation without compromise. By combining deep technical expertise with agility, we empower businesses to unlock new possibilities in storage, compute, and edge applications. Whether scaling enterprise infrastructure or designing next-gen embedded systems, HighPoint delivers the precision and reliability required to thrive in today's connected landscape.

About HighPoint Technologies, Inc.

For tailored solutions or project-specific inquiries, interested parties can contact HighPoint at GeneralSales@highpoint-tech.com. To explore how our cable design and manufacturing services can address your connectivity challenges, learn more about **HighPoint Cable Design and Manufacturing Services** via our dedicated resources or engage our engineering team for a consultation.