

# ULTRA LOW-PROFILE (ULP) PCIe GEN 7 CONNECTORS CABLE ASSEMBLIES

TE Connectivity (TE's) Ultra Low-Profile (ULP) PCIe Gen 7 products deliver cutting-edge PCIe Gen 7 electrical performance and with an ultra low-profile mating height to support next generation datacenter and artificial intelligence (AI) applications. This innovative design not only delivers cutting-edge speed data rates of 128 gigatransfers per second (GT/s) but also can fit into tight spaces, such as beside a CEM connector slot, under heatsinks, or near chips. The centrally located sidebands ensure superior signal integrity and improved host board routability, enhancing the manufacturability and overall performance of your system.

## APPLICATIONS

- Data Center
- AI / Machine Learning (ML)
- Server
- Storage

## KEY BENEFITS

- **Faster Data Rates with Smaller Form Factor**  
This product can help achieve faster data rates without compromising on the size of the form factor with superior SI performance, making it ideal for next-generation applications that require both speed and compactness.
- **Enhanced Usability in Dense Applications**  
The low-profile mating height allows the solution to be used in locations that were previously impossible due to height constraints, expanding the range of potential applications.
- **Superior Host Board Routability**  
The centrally located sidebands improve the manufacturability of the host board and enhance the signal integrity performance of the end-to-end channel, helping to ensure reliable and high-quality data transmission.
- **Full Portfolio Solution**  
Customers can leverage this product family for a variety of applications, from X4/X8/X16 PCIe applications to different configurations, providing a comprehensive solution for their needs.

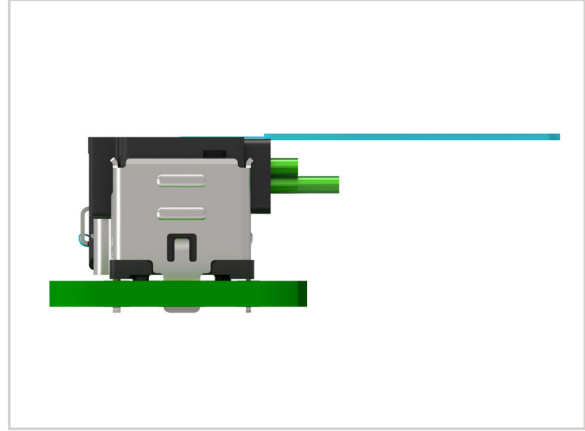
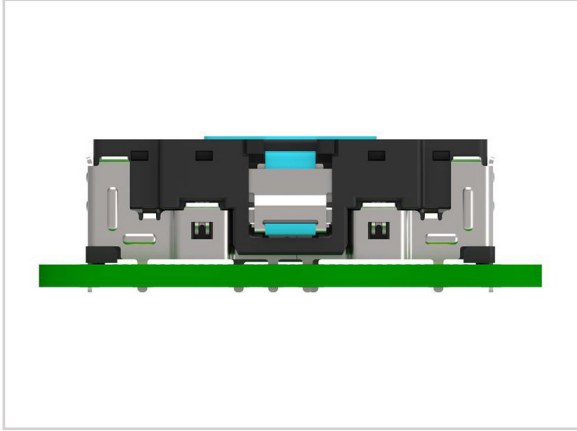
## KEY FEATURES

- **PCIe Gen 7 Electrical Performance**  
Our products are fully capable of delivering the high-speed data transmission promised by PCIe Gen 7, with a transmission speed of 128 GT/s PAM4 using the PCIe protocol.
- **Ultra Low-Profile**  
With a mating height less than 9mm, this product can fit into tight spaces that were previously inaccessible, such as beside a CEM connector slot, under heatsinks, or near chips.
- **Central Sideband**  
The centrally located sidebands accommodate PCIe transmission, ensuring optimal signal integrity and performance.
- **Platform Product**  
This is a versatile platform product that covers the primary use cases of PCIe, including X4/X8/X16 configurations and various applications such as Right Angle, Straight, and Lateral.

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