

PCIe5.0 Card Edge Connector



OVERVIEW

Luxshare-TECH's PCIe Gen 5 card edge connectors meet industry PCI-SIG CEM 5.0 and support data rate up to 32 GT/s. Designed to support better system application extension and higher speed in servers, storage and workstations. Its pitch is 1.0mm,designed for support ing 2.5GT/s (Gen 1), 5.0GT/s (Gen 2), 8.0GT/s (Gen 3), 16GT/s (Gen 4) and 32GT/s(Gen 5). And the connectors’ footprint andmating interface are backward compati ble with each PCIe generation.

FEATURES & BENEFITS

- Available in x16 (164 positions),SMT type
- Size is the same as PCIe4.0 Card Edge Connector
- 1.00 mm pitch, supports 32 GT/s (Gen 5),16 GT/s (Gen 4), 8.0 GT/s (Gen 3)
- Footprint and mating interface backward-compatible with each generation

PRODUCT APPLICATIONS

Networking Equipment  
Servers  
Storage  
Edge computing device  
AI computing architecture

INDUSTRY STANDARDS

PCIe 5.0  
PCIe 4.0

TECHNICAL INFORMATION

MATERIAL

Terminal: Copper Alloy  
Contact Area Finish: Gold over Nickel  
Solder Area Finish: Tin over Nickel  
Board lock:Stainless steel, plated tin over nickel  
Housing: High temperature thermoplastic(UL 94V-0)

ELECTRICAL PERFORMANCE

Voltage: 12V  
Current: 1.1A MAX per contact

ENVIRONMENTAL

Operating temperature : -55°C TO +85°C  
Storage temperature : -15°C TO +85°C

MECHANICAL PERFORMANCE

Rated Durability Cycles: 50  
Mating Force: 0.58N /pin MAX  
Unmating Force: 0.075N /pin MIN

PACKAGING

Tray

SPECIFICATION

ES-11-00-0022

Partial PN Table

Product Numbers	Product Description
PIEBA6-5301-000-1H	PCIE 5.0 Vertical Receptacle 164PIN SMT TYPE