

## PCIe4.0 Card Edge Connector

### OVERVIEW

Luxshare-TECH's PCIe Gen 4 card edge connectors meet industry PCI-SIG CEM 4.0 and support data rate up to 16 GT/s. Designed to support better system application extension and higher speed in servers, storage and workstations. Its pitch is 1.0mm, designed for supporting 2.5GT/s (Gen 1), 5.0GT/s (Gen 2), 8.0GT/s (Gen 3) and upgrade to 16GT/s (Gen 4). And the connectors' footprint and mating interface are backward compatible with each PCIe generation.



### FEATURES & BENEFITS

- Available in x16 (164 positions), SMT type
- 1.00 mm pitch, supports 16 GT/s (Gen 4), 8.0 GT/s (Gen 3), 5.0 GT/s (Gen 2), and 2.5 GT/s (Gen 1)
- Footprint and mating interface backward-compatible with each generation

### PRODUCT APPLICATIONS

Networking Equipment  
Servers  
Storage  
Edge computing device  
AI computing architecture

### INDUSTRY STANDARDS

PCIe 4.0  
PCIe3.0

## 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
PIEBA6-5300-000-1H	PCIE 4.0 Vertical Receptacle 164PIN SMT TYPE