

## MPCIe x16 Host Card with fibre connection

### Overview

The MPCIE16-H3 card is a PCIe Gen 3 host card dedicated to the high-throughput PCIe connectivity. It is designed to operate with a MPCIE16-T3 target card. The PCIe host card supports the PCIe x4, x8 or x16 link.

It is designed to operate with the MPCIE16-T3 Target card. The MPCIE16-H3 allows connecting the PCIe switch of MCH to an external CPU working as Root



### Features

- Data transfer up to 128 Gb/s (Gen 3)
- Supports PCIe x16 Gen 2/Gen 3
- No additional drivers or software
- Dedicated for optical fiber and cooper link

### Typical Applications

- Data Acquisition and Control Systems
- Telecommunication
- Image Acquisition and Processing Systems
- High Performance Computing

### Requirements

The MPCIE16-H3 card can be directly connected to the MTCA.4 compliant system equipped with MPCIE-T3 card with a compliant MCH. The MCH should support the PCIe x16 Gen 2 or Gen 3 uplink port in the Zone 3 connector.

Hardware Features	
Form Factor	<ul style="list-style-type: none"> <li>• PCI Express x16</li> <li>• Low profile card (dimensions 167.65 x 111.15 mm)</li> <li>• Standard height</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>• 1.0 A Payload Power (+12 V)</li> <li>• 50 mA Management Power (+3V)</li> </ul>
Connectors	<ul style="list-style-type: none"> <li>• PCIe x16 External Cable Connector</li> </ul>
Status indicators	<ul style="list-style-type: none"> <li>• Link Status (x1/x4/x8/x16)</li> </ul>
Redrivers	<ul style="list-style-type: none"> <li>• 8.0 Gbps, 16-Lane PCI Express Gen 3 Re-river</li> <li>• Equalization and Emphasis Tuning</li> </ul>
PCIe Cable	<ul style="list-style-type: none"> <li>• Four PCIe x16 fiber/cooper cable</li> </ul>
Industry Specifications	<ul style="list-style-type: none"> <li>• PCIe External Cabling Specification, Rev. 2.0</li> <li>• PCI Express Base Specification, Rev. 3.0</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• 0°C to +70°C</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• -40°C to +85°C</li> </ul>
Operating Humidity	<ul style="list-style-type: none"> <li>• 10% to 90% relative humidity non-condensing</li> </ul>
Storage Humidity	<ul style="list-style-type: none"> <li>• 5% to 95% relative humidity non-condensing</li> </ul>

Order information	RoHS Compliant
Part Number	Description
MPCIE16-H3-O	PCIe x16 gen. 3 Host Card with optical fibre
MPCIE16-H3-C	PCIe x16 gen. 3 Host Card with cooper cable