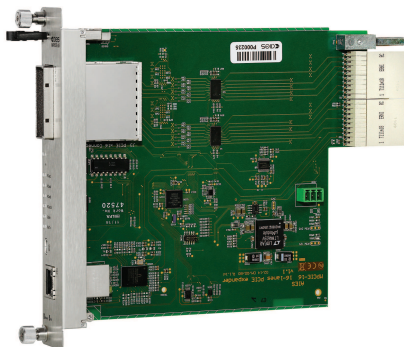


## PCle Expander Card for MTCA.4 Systems

### Overview

The MPCIE16-T3 is a double-width, mid-size RTM PCIe target cable adapter dedicated to MTCA.4 systems using the NAT-MCH-PHYS80 MicroTCA Carrier Hub. The MPCIE16-T3 allows for connecting the PCIe switch of the MCH to an external CPU working as a Root Complex using the PCIe cable (fiber or cooper). The MPCIE16-T3 supports the PCIe x16, Gen 3.



### Features

- Data transfer up to 128 b/s (Gen 3)
- Supports the PCIe 4, x8 x16 Gen 2 / Gen 3
- No additional drivers or software
- Dedicated for the optical fiber and cooper link

### Typical Applications

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

### Requirements

The RTM card can be directly connected to the MTCA.4 compliant with the MCH via the Zone 3 Connector. The MCH should support PCIe x16 Gen 2 or Gen 3 uplink port in the Zone 3 connector. The MPCIE16-T3 requires the MPCIE16-H3 PCIe Host card.

### Hardware Features

Form Factor	<ul style="list-style-type: none"> <li>• Rear Transition Module</li> <li>• PICMG MTCA.4</li> <li>• Double-Width (board dimensions: 180.6 x 148.5 m)</li> <li>• Full-Size faceplate (MS available as option)</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> <li>• 1 Gb Ethernet</li> <li>• ERmet High-speed ADF 30-pair connector</li> </ul>
Status indicators	<ul style="list-style-type: none"> <li>• Link Status (x1/x4/x8/x16)</li> <li>• Cable Presence</li> <li>• Link Failure</li> </ul>
PCB thickness	<ul style="list-style-type: none"> <li>• 1.6 mm</li> </ul>
PCIe Cable	<ul style="list-style-type: none"> <li>• Four PCIe x4 fibre or cooper cable</li> </ul>
Module Managment Controller	<ul style="list-style-type: none"> <li>• IPMI version 1.5 with MTCA.4 extensions</li> <li>• Blue, Red, And Green LEDs according to MTCA.4</li> </ul>
Industry Specyfifications	<ul style="list-style-type: none"> <li>• PCIe External Cabling Specification, Rev. 2.0</li> <li>• PCI Express Base Specification, Rev. 3.0</li> <li>• PICMG MTCA.4</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-T3-FS	PCIE Expander Card with Full-Size faceplate
MPCIE16-T3-MS	PCIE Expander Card with Mid-Size faceplate