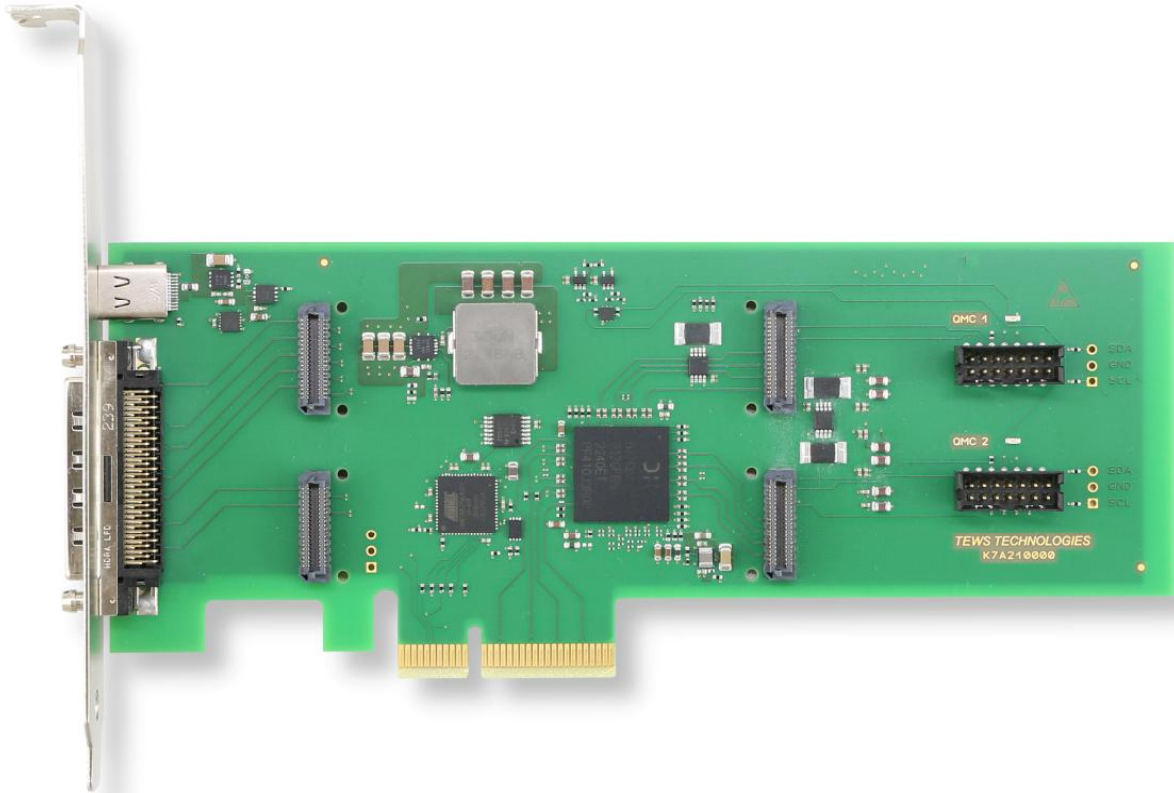


## TPCE210 PCI Express x4, Gen 2, Dual QMC Carrier



TPCE210-10R

### Application Information

The TPCE210 is a low-profile, half-length PCI Express Revision 2.0 compatible carrier board for two single QMC modules or one double QMC module.

It can be used to build modular, flexible and cost effective I/O solutions for all kinds of applications like process control, medical systems, telecommunication and traffic control.

The TPCE210 is a versatile solution to upgrade any system with a PCI-Express Add-in Card slot to the new QMC standard (VITA 93.0).

The PCI Express x4 Link from the host board is routed to the two QMC sites via a PCI Express switch, allowing the operation of two different single QMCs.

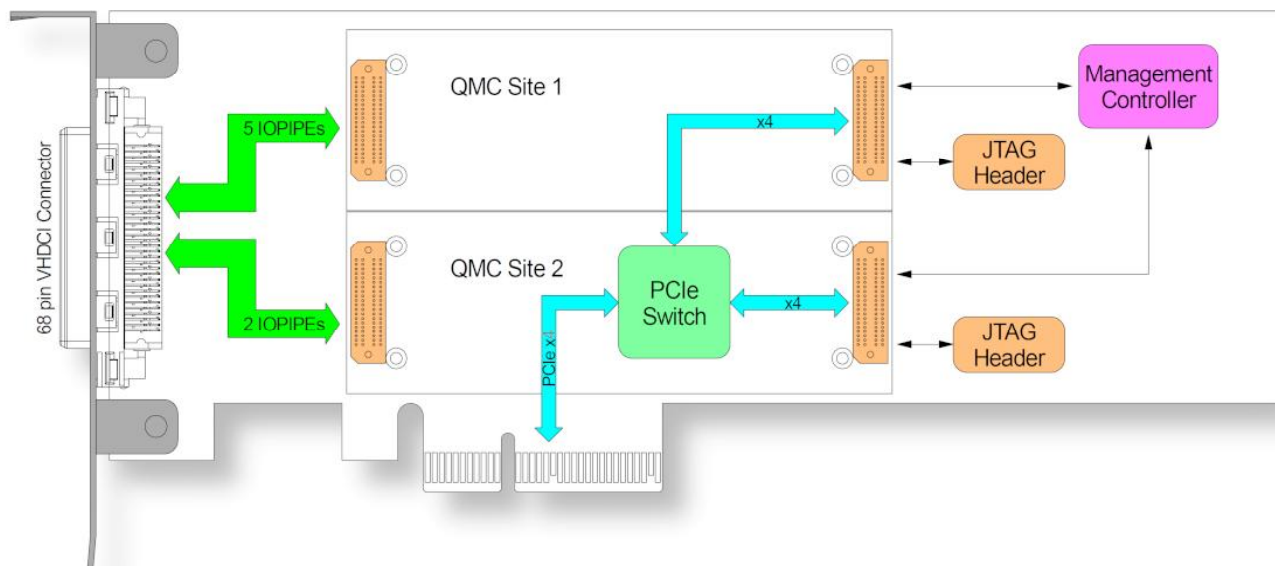
An on-board Management Controller (IPMC) allows access to the QMC's FRU EEPROM and sensors. Ideal for surveillance of the QMC's health status.

QMC I/O is accessible through a VHDCI-68 front-panel connector, supporting access to the full five IOPIPEs of QMC1 and in addition two IOPIPEs of QMC2.

A unique JTAG header is available for each QMC module for debugging purposes. Four JTAG signals (TRST# not included) are routed directly to the QMC site.

## Technical Information

- Form Factor: PCI Express x4 Revision 2.0
  - Board size: low-profile, half-length (167.65 x 68.9 mm)
  - PCIe Speed: max. 5GT/s (dependent on the mounted QMC modules)
- Two single QMC sites:
  - PCIe Interface x4, Rev. 2.0
  - Front-panel I/O access via VHDCI-68
  - Unique header with JTAG Signals routed to each QMC connector
- Management Controller
  - QMC FRU EEPROM and sensor access
  - Surveillance of QMC health status
- Operating temperature -40 °C to +85 °C
- MTBF (MIL-HDBK217F/FN2 GB 20 °C)
- TPCE210-10R: 959000h



Block Diagram

## Order Information

### RoHS Compliant

**TPCE210-10R** 2 Site QMC Carrier, PCIe x4, Gen2, low-profile, VHDCI-68 I/O

For the availability of non-RoHS compliant (lead solder) products please contact TEWS.

### Related Products

**TA307** Cable Kit for Modules with VHD68 / SCSI-V Connector