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Find the *Mercury Computer Systems SCFE-V6-4QSFP-0VPX* at our website: *Click HERE*

DATASHEET

ECHOTEK® SERIES

MERCURY COMPUTER SYSTEMS™

SCFE-V6-4QSFP-OVPX
16 CH (4 X QSFP) Fiber OpenVPX FPGA Module



- **Four QSFP cages and connectors per OpenVPX™ slot via two IOM-QSFP-FMC Optical Interface FMCs**
- **Full duplex data rate of 3.125 to 5 Gbps**
- **SFPDP protocol support, subset components provided for VITA-49 Digital IF development**
- **Modular approach allows for the exchange of fiber media without baseboard removal**
- **FMC HPC connection to Virtex®-6 FPGAs (SX315/SX475/LX240T) on Serial RapidIO®-enabled SCFE-V6-OVPX baseboard**

The SCFE-4QSFP-V6-OVPX Module is ideal for deployed defense and industrial applications where digitized sensor I/O or data packets need routing via multi-channel high-speed fiber (or short-reach copper) to and from FPGA processors. Data rates of 3.125 Gbps to 5 Gbps per serial fiber lane are supported with up to 16 lanes available per OpenVPX slot.

The SCFE-4QSFP-V6-OVPX Module packs up to 16 full-duplex fiber channels and three large Xilinx® Virtex-6 FPGAs (SX315T, SX475T or LX240T) into a single OpenVPX board slot. This is made possible via the integration of two IOM-QSFP-FMC Optical Interface FPGA Mezzanine Cards (FMCs), which provide for a total of four QSFP connections onto Mercury's flagship SCFE-V6-OVPX Vita 65 OpenVPX baseboard (see Figure 1).

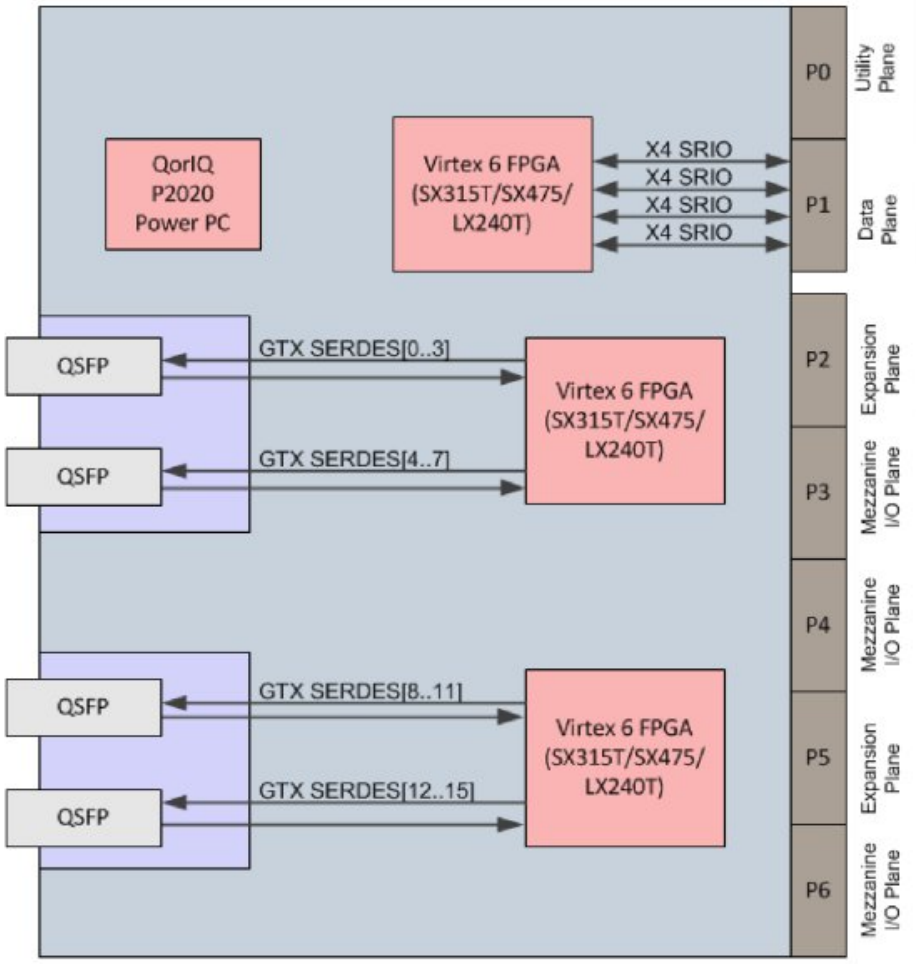


Figure 1. SCFE-V6-4QSFP-OVPX provides 16 fiber channels via four QSFP connectors, three Virtex-6 FPGAs and a QorIQ PowerPC®

Specifications

Size

Two single-wide IOM-QSFP-FMC modules extend through the front panel of the SCFE-V6-OVPX carrier (1.0" pitch)

Environmental

0 C to +55 C

Contact factory for rugged versions

Power Supply Requirements*

11.7A @ 12V max

3.0A @ 5V max

3.7A @ 3.3V max

**160W assumes max load of 30W per each of three user programmable FPGAs and two IOM-QSFP-FMC modules at max draw*

Fiber Channels

16 with two IOM-QSFP-FMC modules on SCFE-V6-OVPX carrier

FPGA Type

V6 SX315T, SX475T or LX240T available on SCFE-V6-OVPX OpenVPX™ FMC carrier. Refer to SCFE-V6-OVPX datasheet for additional specifications.

Bus Interface Type

FMC (VITA 57)

Connectors

QSFP 1, QSFP 2

Software/FPGA Infrastructure IP

SFPDP IP including loopback test and exerciser

VITA-49 Digital IF packet generator and checker

QSFP Configuration Programming I2C Interface

Additional IP cores available via Mercury Services and Systems Integration (SSI)

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