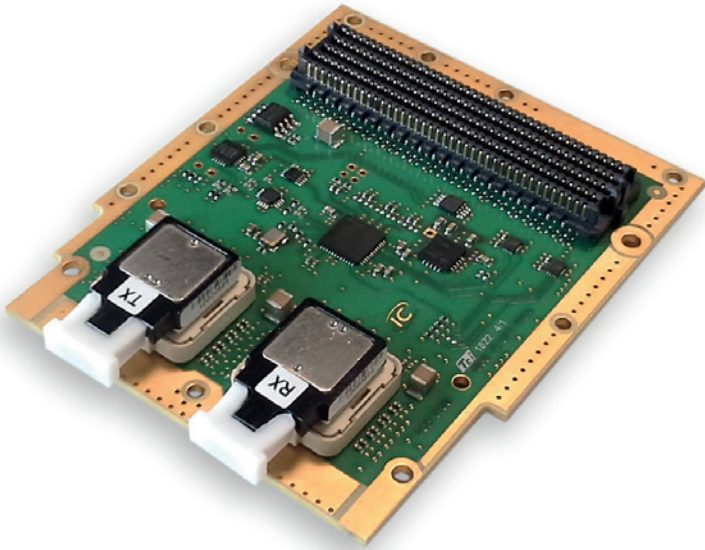


Optical FMC board



Benefits of using optical transceivers

- Full duplex 120G transceiver with 12 transmit channels and 12 receive channels operating at up to 10 Gbps per channel.
- 12-lane MT ferrule connector allowing for short reach applications (up to 100 m) on OM3 multimode fiber.
- Low power consumption: 1.8 W per optical module.
- Small dimensions (L x H x D): 24 mm x 5 mm x 13 mm.
- MIL-STD 883 shock and vibration qualified.
- Operation over industrial temperature range: -40 °C to 85 °C.
- Bit error rate as low as 10⁻¹⁵.
- Receiver sensitivity: -12 dBm.
- Supports front panel optical interface.

Interface Concept, a leading developer and manufacturer of high performance boards and systems for civil and military embedded applications, has launched a new generation of optical FMC board (IC-OPT-FMCPa) integrating Reflex Photonics *LightABLE™* embedded transceivers for high I/O optical interconnect.

The new VITA 57.1/57.4 compliant FMC offers 120 Gbps of full-duplex bandwidth and can be used with all the FPGA Front End Processing board from Interface Concept.

Quote from Interface Concept

The IC-OPT-FMCPa is equipped with two optical modules, one handling 12 transmit channels and the other one handling 12 receive channels allowing short reach applications (up to 100 m) on parallel multi-mode fiber. As a VITA 57.1 FMC, the IC-OPT-FMCPa can be used for data communication with our Virtex-6, Virtex-7 and above Front End Processing boards. (...)

Interface Concept has designed VITA57-compliant carrier boards, based on last generations of FPGA's and offering the flexibility of a FMC site that can run the IC-OPT-FMCPa.



Transceiver used in this application:

LightABLE LH SR12 embedded transceiver

www.reflexphotonics.com

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Reflex Photonics is certified to ISO 9001

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