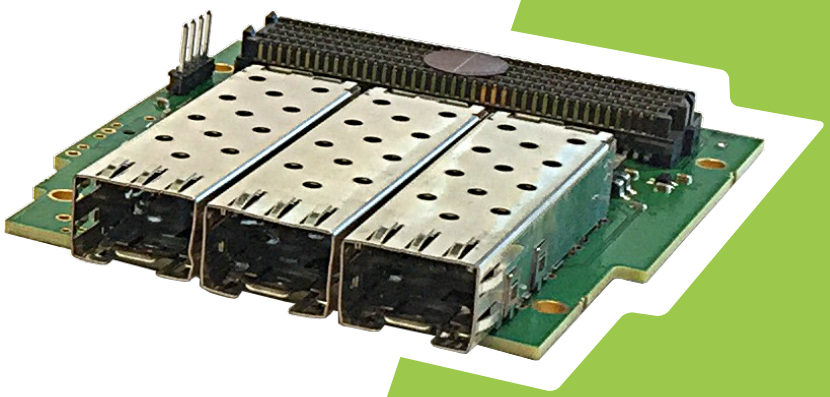
SFP/SFP+ FMC

HIGH-SPEED SERIAL-LINK FPGA MEZZANINE

TECHWAY
SIGNAL VISION SYSTEM

SFP/SFP+ FMC with stacking capabilities



APPLICATIONS

- Telecom
- High-speed data-switching
- Prototyping
- Digital video
- Optic or copper transceiver

BENEFITS

- Ready-to-use :
  - VITA 57.1 compliant
- Easy-to-use :
  - Free SDK with example design
  - TECHWAY support
- Cost-effective
- High-speed protocol dedicated
- Scalable FMC slot

KEY FEATURES

- 3 or 4 SFP/SFP+ slots
- Programmable oscillator
- Up to 10 Gbps
- FMC connector on the top for mezzanine stack (option)
- Protocols :
  - Ethernet (1 & 10 Gbps)
  - ARINC 818
  - sFPDP
  - Fiber Channel
  - Xilinx Aurora
  - User-defined

Getting some copper and optical interfaces is mandatory in every project. Therefore, being stuck with an insufficient number of interfaces could be a real handicap.

TECHWAY provides a very cost-effective solution with the FMC SFP/SFP+. This fully VITA 57.1 compliant mezzanine offers up to 4 SFP/SFP+ cages, supporting both copper or fiber interfaces.

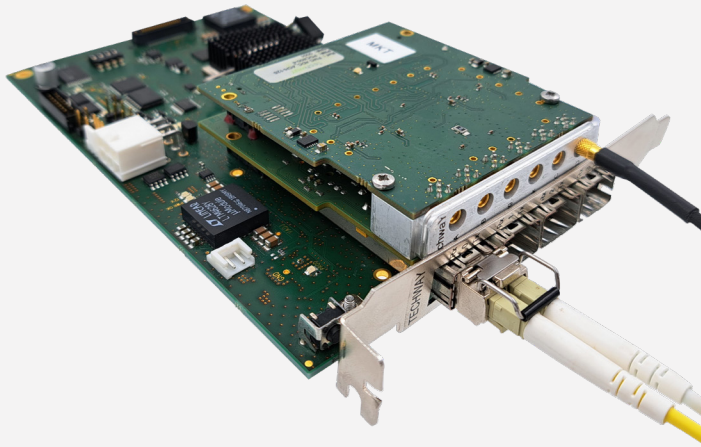
Indeed, the board is protocol-agnostic and allows up to 10 Gbps per link.

As an option, the FMC SFP/SFP+ comes with an extra upper FMC connector which routes all unused signals to another mezzanine.

DEFENCE

INDUSTRY

STACKABLE



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FIRMWARE

- VHDL SFP monitoring module
- VHDL SFP control module
- VHDL programmable oscillator control volume

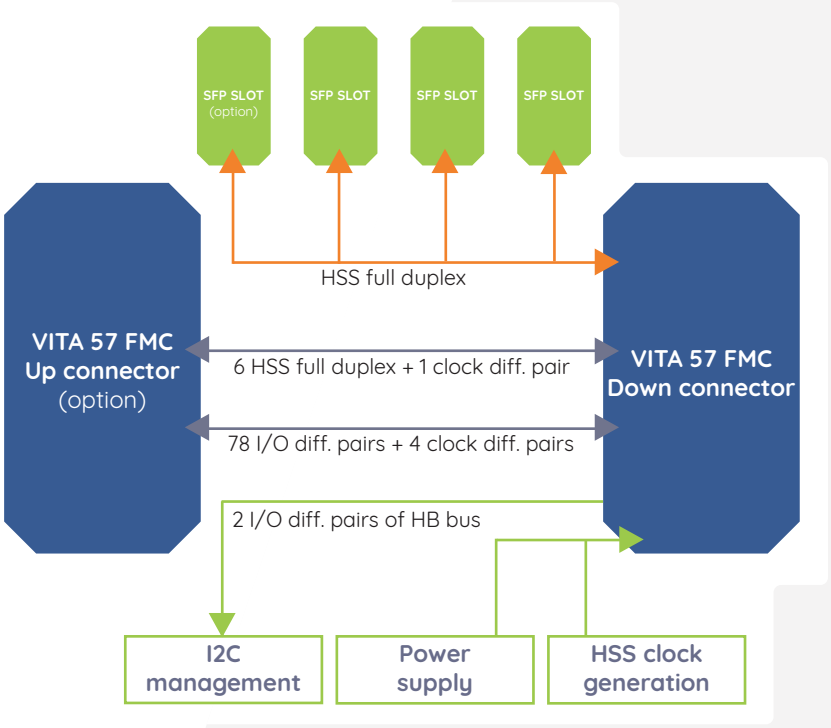
ENVIRONMENTAL INFORMATION

- Operating temperature range : 0°C to 50°C
- Storage temperature range : -55°C to 125°C
- Maximum shock range : 10g during 20ms
- Maximum vibration range : 0.03 g2/Hz
- Compliant with ROHS process

SOFTWARE DEVELOPMENT KIT

- Programmable oscillator set up
- Controlling card by I2C

BLOCK DIAGRAM



ORDERING INFORMATION

Reference	SFP slots	Extra FMC slot
FMC_SFP/SFP+_101	4	■
FMC_SFP/SFP+_104	3	
FMC_SFP/SFP+_105	4	

Other options are available, contact us for custom.

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