

SFP/SFP+ FMC

HIGH-SPEED SERIAL-LINK FPGA MEZZANINE



TECHWAY

iXnov group

SFP/SFP+ FMC with stacking capabilities

APPLICATIONS

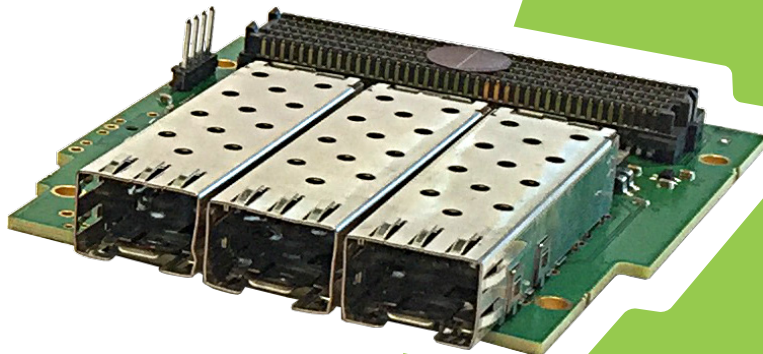
- Telecom
- High-speed data-switching
- Prototyping
- Digital video
- Optic or copper transceiver

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



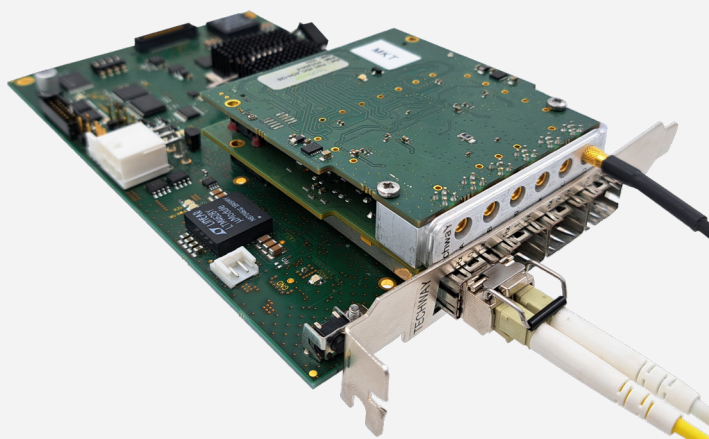
Getting some copper and optical interfaces is mandatory in every project. Therefore, being stuck with an insufficient number of interfaces could be a real handicap.

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.

STACKABLE



DEFENCE

INDUSTRY



Information and photos subject to change without notice

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FIRMWARE

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

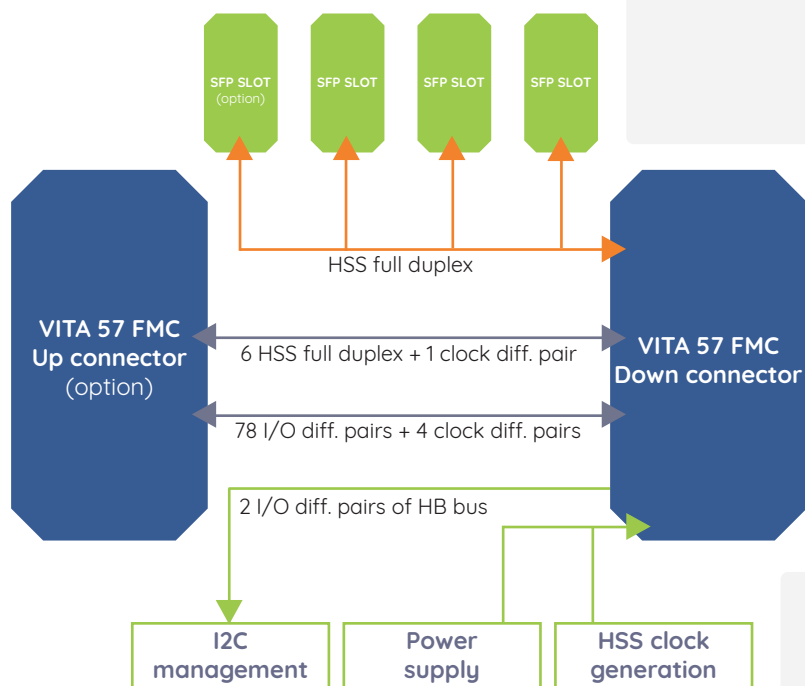
ENVIRONMENTAL INFORMATION

- 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

# (P/N)	Reference	Description
PDC000101	FMC_SFP/SFP+_101	VITA 57.1 SFP/SFP+ FMC, 4 SFP slots, Programmable oscillator, Stackable
PDC000102	FMC_SFP/SFP+_102	VITA 57.1 SFP/SFP+ FMC, 4 SFP slots, Programmable oscillator, LPC Stackable
PDC000104	FMC_SFP/SFP+_104	VITA 57.1 SFP/SFP+ FMC, 3 SFP slots, Programmable oscillator, Not stackable
PDC000105	FMC_SFP/SFP+_105	VITA 57.1 SFP/SFP+ FMC, 4 SFP slots, Programmable oscillator, Not stackable

Other options are available, contact us for custom.

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