

iG-FMC-SFP08-I1

Octa SFP28/SFP+ FMC+ Module

iWave Global's Octa SFP28/SFP+ FMC+ Module is designed to meet the VITA 57.4 FMC+ Standard.

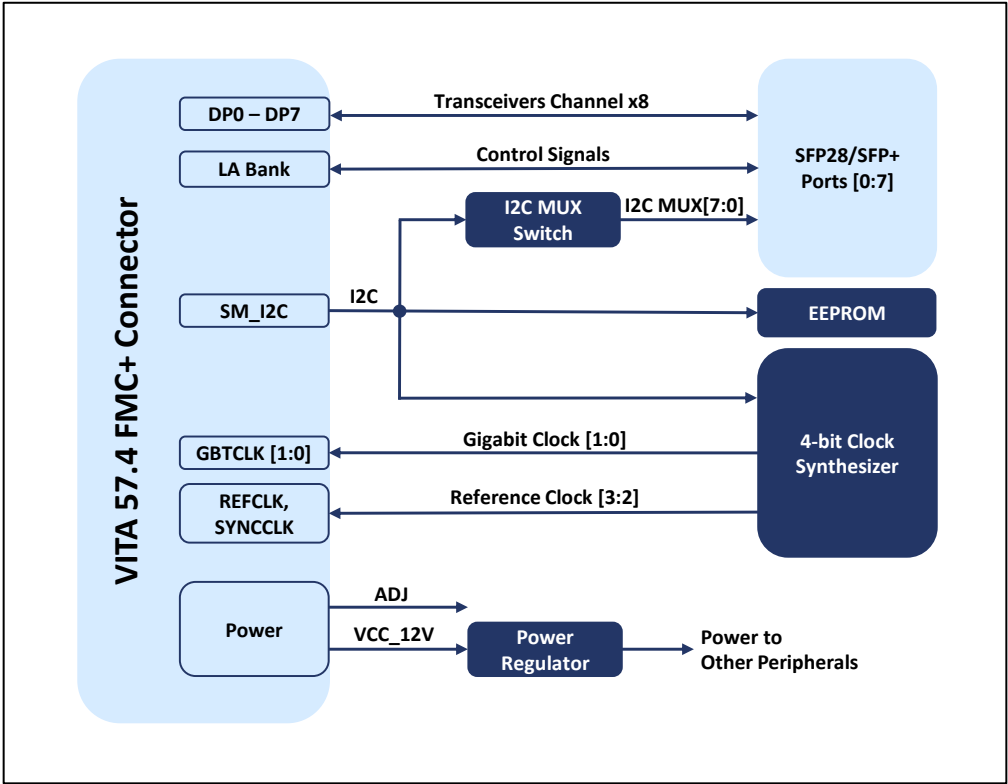
This FMC+ Module is designed for 8x SFP28/SFP+ Ports with the support of up to 200G (8x 25Gbps). Each SFP28/SFP+ Port is directly connected to gigabit transceiver banks of VITA 57.4 compliant carrier. A 4-bit Clock Synthesizer is used to provide the flexible reference clock in the range of 0.16MHz to 710MHz and it is pre-programmed to 156.25MHz. A 32-Kb EEPROM is used for Configuration Storage.



Highlights

- ❖ VITA 57.4 FMC+ HSPC Connector
- ❖ Compatible with VITA 57.1 FMC Connector
- ❖ Octa SFP28/SFP+ Port: Supports up to 200Gbps (8x 25Gbps)
- ❖ 4-bit Pre-programmable Clock Synthesizer
- ❖ 32-Kb EEPROM for VITA 57.4 Configuration Storage
- ❖ 12V Power Input through FMC+ HSPC Connector
- ❖ Form Factor: VITA 57.4 Single Width (84.81mm x 69mm)

Block Diagram



Technical Specifications

FPGA Mezzanine Connector Plus (FMC+)	VITA 57.4 FMC+ HSPC Connector
SFP28/SFP+ Ports	Octa SFP28/SFP+ Port: Supports up to 200Gbps (8x 25Gbps)
Clock	4-bit Pre-programmable Clock Synthesizer
Memory	32-Kb EEPROM for VITA 57.4 Configuration Storage
Power Input	12V through FMC+ HSPC Connector
Operating Temperature	-40°C to +85°C (Industrial)
Form Factor	VITA 57.4 Single Width (84.81mm x 69mm)
Mechanical Dimension	92.5mm x 69mm x 24.47mm
Environment Specification	REACH & RoHS3 Compliant
Compliance	CE*

*Under Progress

Applications

- **Data Centers**

Provides high speed connectivity for bandwidth intensive tasks, such as server-to-switch connections and intra-rack links.

- **5G Mobile Networks**

Handles the increased bandwidth and low-latency demands of 5G infrastructure.

- **Enterprise Networks**

Upgrades core and distribution layers in enterprise networks to support high-speed Wi-Fi 6/6E/7 access points and backbone links.

- **Metro Networks and Telecommunications**

Provides metro network edges and longer campus/enterprise backbone links.

- **High-Performance Computing (HPC) & Storage Area Networks (SAN)**

Provides low-latency and high-bandwidth interconnects for computing clusters and storage applications.

- **Broadband Network Gateways (BNGs) & Cable Modem Termination Systems (CMTS)**

Handles increasing subscriber bandwidth demands and supporting various bandwidth-intensive tasks and enabling scalable network upgrades.

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Since 1999, we have pioneered leadership in embedded systems technology, establishing ourselves as a strategic embedded technology partner for advanced solutions. Our comprehensive portfolio encompasses ARM and FPGA System on Modules, COTS FPGA solutions, and ODM solutions which include Telematics, Gateways & HMI Solutions.

Beyond our robust product ecosystem, we provide comprehensive ODM support with specialized custom design and manufacturing capabilities, enabling customers to accelerate and optimize their product development roadmaps. With a strategic focus on industrial, automotive, medical, and avionics markets, we deliver innovative technology solutions to global clients.

mktg@iwave-global.com

iWave Global
Bangalore, India

iWave USA
Campbell, California

iWave Global
Ras Al Khaimah, UAE

iWave Global GmbH
Ratingen, Germany

iWave Europe
Rotterdam, Netherlands

iWave APAC
Taipei City, Taiwan

iWave Korea
Gyeonggi,-do, Korea

iWave Japan
Yokohama, Kanagawa

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