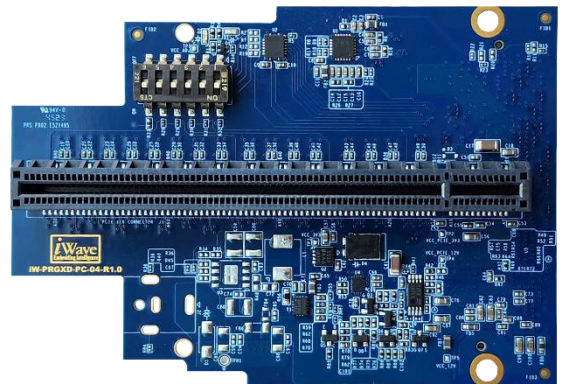


PCIe Gen4 x16 FMC+ Module

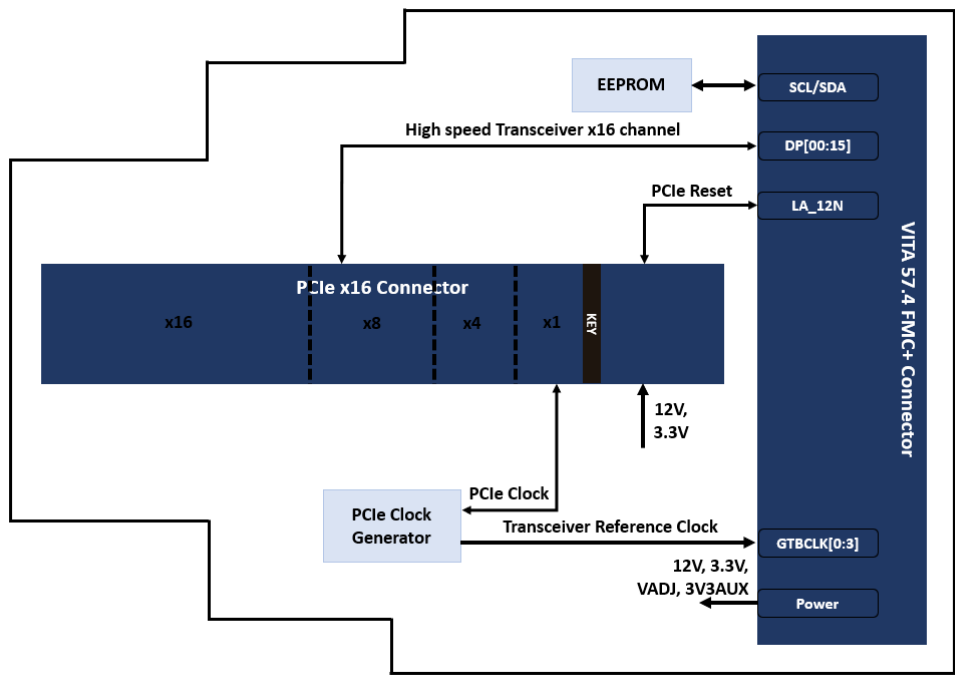
iWave's Gen4 x16 PCIe FMC+ Module is designed to meet VITA 57.4 FMC+ standard. This FPGA Mezzanine Connector Plus (FMC+) Module support up to 16 lanes for PCI Express Root Complex and Endpoint Interface. A flexible 2-Bit clock source for PCIe x16 connector and Transceiver reference clock. Each of these 16 lanes is directly connected to four multigigabit serial transceivers banks of Vita 57.4 complaint carrier board.



Highlights

- ❖ VITA 57.4 FMC+ Connector
- ❖ PCI Express Gen4 x16 Root Port
- ❖ PCI Express Gen4 x16 Endpoint through cable
- ❖ 2-Bit Clock source for reference
- ❖ 32Kb EEPROM
- ❖ 10+ Years long term support

Block Diagram



Technical Specifications

FMC+ Connector	VITA 57.4 FMC+ Connector
PCIe Connector	- PCI Express Gen4 x16 Root Port - PCI Express Gen4 x16 Endpoint through Cable
Clock Source	2-bit clock for reference (100MHz)
EEPROM	32Kb EEPROM for VITA 57.4 Configuration Storage

Form Factor	98.5mm x 69mm
Operating Temperature	-40°C to +85°C (Industrial Grade)
Power Input	12V from FMC+ Connector
Environment Spec.	REACH & RoHS3 Compliant

Applications

Data Center for workloads

PCIe card enhance data center efficiency by offloading networking, security, and storage functions, reducing CPU load and improving overall performance.

High-Performance Computing

By integrating PCIe card, HPC systems achieve low-latency communication, intelligent workload distribution, and accelerated data transfer, enabling seamless execution of high-speed simulations, AI, and scientific computing tasks.

A Global Leader in Embedded Systems Engineering and Solutions

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

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