

FMC daughter card Fibre Channel



Summary of Content

FMC daughter cards can provide high-speed fiber connectivity for FPGA prototyping, supporting multiple channels and protocols like Aurora, with data rates up to 10-28 Gb/s per channel.

Overview of FMC Daughter Cards

FMC (FPGA Mezzanine Card) daughter cards are modular I/O expansion boards that connect to FPGA carrier boards via standard FMC connectors (Vita 57.1 or 57.4). They allow designers to add high-speed serial interfaces, ADCs, DACs, or fiber channels without redesigning the main FPGA board . FMC+ (Vita 57.4) modules extend the number of serial transceivers, supporting up to 24 channels compared to 10 channels on standard FMC .

Fibre Channel and High-Speed Fiber Support

For Fibre Channel or similar high-speed optical applications, FMC daughter cards provide multiple fiber transmit and receive channels. For example, the FMC607-based card supports 12 receive and 12 transmit fiber channels, each capable of 10 Gb/s, and can operate in X4, X8, or X12 modes using the Aurora protocol . These cards are compatible with Xilinx FPGA development boards and can be adapted to other FPGA carriers with proper clocking and interface support.

Other FMC cards, like the FMC-QSFP, provide QSFP28 or SFP+ interfaces with data rates up to 27.8125 Gb/s per channel, enabling over 100 Gb/s per connector, suitable for high-performance computing, data centers, or networking applications . These cards can interconnect multiple FPGA boards for large-scale prototyping or high-bandwidth communication.

Article Content

logiFMC-FPD3-934 6-Ch FPD-Link III Video FMC Daughter Card

General Description Xylon's logiFMC-FPD3-934 6-Channel FPD-Link III FMC daughter card supports one of the most popular

ALINX FMC RFMC Cards | Modules, FPGA Mezzanine Cards for

Explore ALINX FMC RFMC Cards and FPGA Mezzanine Cards for versatile FPGA SoC development board kits, offering high

Terasic

One FMC connector for interface conversion, host boards supporting FMC (HPC)-compliant connector can work with

Daughter Cards

HES7DB-FMC is an adapter daughter card from BPX to FMC connectors. Additionally it provides two QSFP+ connectors for high

FMC Vita 57.1 & 57.4 daughter cards / modules

The Vita57.1 (FMC) modules provide access to up to 160 single-ended I/Os (80 LVDS) and/or up to 10

Aldec FMC-QSFP High Speed Links Daughter Card

Such interfaces can also be used to connect multiple prototyping boards together to create an environment for prototyping

Hardware Platforms

The card is primarily designed to enable quick prototyping and evaluation of automotive multi-camera Advanced Driver Assistance

Terasic

It is intended to allow users to evaluate the performance of transceiver-based host boards with FMC

FMC607-based 12-receive and 12-transmit fiber daughter card

This card is an FPGA mezzanine card (FMC) module that can provide up to 2 CXP module interfaces and 12 receive and 12 transmit

FMC229-8-channel DAC & 2-channel ADC FMC daughter card

FMC229-8-channel DAC& 2-channel ADC FMC daughter card is an 8-channel 250Msps DA 16bit, 2-channel AD 250Msps 14bit

FMC+ (Vita57.4) to x2 FMC (Vita57.1) Splitter

FPGA Boards Selection Guide FMC Modules Selection Guide Product Updates FMC+ (Vita57.4) to x2 FMC (Vita57.1) Splitter

FMC Daughter Card – ZKey Technology Inc.

FMC Daughter Card n July 2008, with the approval and release of the VITA 57 FPGA Mezzanine Card (FMC: FPGA Mezzanine

SFP/SFP+ FMC Card

This versatile card provides up to four SFP/SFP+ slots, accommodating both copper and fiber interfaces and is a fully VITA 57.1

Terasic

XTS-FMC Board The XTS-FMC daughter card is designed to convert FPGA transceiver channels to SMA

FMC-IOT

FMC-IOT daughter card provides a set of peripherals and interfaces commonly used in embedded designs

Daughter Cards

Daughter cards provide extensions to HES or TySOM boards providing additional devices and peripherals not included in these

AD FMC Card

FMC147-Multi-Channel Multi-Mode 10-Bit ADC 1.25 GSPS 2.5 GSPS 5.0 GSPS FMC-HPC Analog to Digital Converter Board New

2-port QSFP28 (2x100G) FMC Module

FMC Modules Selection Guide Product Updates 2-Port QSFP28 (2x100G) / QSFP+ (2x40G or 2x56G) FMC Module (Vita57.1) Vita

FMC-IOT Internet-of-Things Daughter Card

FMC-IOT daughter card provides a set of peripherals and interfaces commonly used in embedded designs and being the key

Alinx Fh1223 Fmc Hpc Interface To Sfp Optical Fiber Interface

Alinx Fh1223 Fmc Hpc Interface To Sfp Optical Fiber Interface Adapter Board Fmc Daughter Board For Fpga Board - Buy Fmc Hpc

FMC-INDUSTRIAL

FMC-INDUSTRIAL Industrial Communication Daughter Card Isolated, full-duplex RS485/422/Profibus up

Aldec Provides the Industry's Most-Comprehensive Portfolio of FMC ...

The FMC standard from ANSI/VITA has been a key enabler for extending I/O support for a wide range of applications.

Terasic

The Terasic ADC-FMC is a four-channel high speed ADC daughter card with FMC interfaced. Two AD9648BCPZ-125 chips are used

FH9656 8-channel 125MSPS 16-bit ADC FMC daughter card module

Product Description The FH9656 is a VITA57.1-compliant 8-channel 16-bit AD acquisition FMC card with 125 MSPS sampling rate. It

FMC-QSFP

Aldec's FMC-QSFP daughter cards support data rates of 27.8125 Gb/s per channel via QSFP+, delivering over 100 Gb/s per

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