

CoaXPress 2.0 Quad/Octo Connection Device FMC

FMC-CXP-12G Device Microchip

FPGA Mezzanine Card

PRODUCT BRIEF

The EASii-IC CoaXPress Device FMC Board is a 4-connection, stackable to 8-connection, single-width board, compatible with the ANSI/VITA 57.1 FPGA Mezzanine Card (FMC) standard. Each board provides 4 device connections compliant with the CoaXPress 2.0 and 1.1.1 standards operating at up to 12.5 Gbps. Two boards can be stacked to provide up to 8 connections.

ABOUT COAXPRESS

CoaXPress standard defines a cost effective and easy interfacing between video devices and acquisition hardware over RG59 and RG6 coaxial cables. It enables hot-plug of devices and 24V power-over-cable with up to 13 Watts per cable.

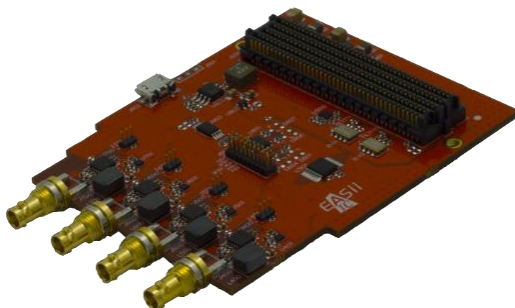
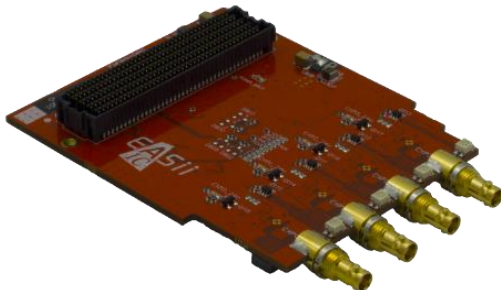
A device can support multiple cameras of many video stream formats. Video streams are sent to a host at a selectable high-speed downlink connection rate from 1.25 Gbps to 12.5 Gbps per cable, with up to 8 cables per device to increase the total bandwidth to 100 Gbps.

Device and cameras can be controlled from a host through the uplink connection at 41.66 Mbps. The standard also provides a low latency, accurate trigger interface between device and host.

CoaXPress supports GenICam international standard, providing a generic programming interface for all kinds of cameras regardless of the interface technology.

EASII-IC CXP 2.0 DEVICE FMC USAGE

- Prototyping



EASii-IC CXP 2.0 DEVICE FMC FEATURES

- **JIAA CXP-001-2019 CoaXPress 2.0 compliant & JIAA CXP-001-2015 CoaXPress 1.1.1 compliant**
- **ANSI / VITA 57.1 FPGA Mezzanine Card compliant**
- **4 coaxial 75 ohms HD-BNC connectors**
Providing 4 CoaXPress device connections at operating bit-rates from 1.25 Gbps to 12.5 Gbps
- **1 Samtec FMC HPC connector**
for connections with the carrier board
- **FPGA targets: Xilinx, Intel, Microsemi**
Xilinx 7-series/Zynq, Ultrascale, Ultrascale+/MPSoC;
Intel V-series, 10-series;
Microsemi Polarfire
- **Stackable to provide up to 8 devices connections**
through a 2nd Samtec FMC HPC connector

PRODUCT DETAILS

- Dimensions: 84.00 mm x 69.00 mm
- Number of layers: 8 layers
- Board thickness: 1.6 mm
- Coaxial cable driver: MICROCHIP EQCO125X40
- Coaxial connectors: HD-BNC
- FMC main connector: Amphenol 034-1018-12G
- FMC extender connector: Samtec ASP-134488-01
- LEDs: Samtec ASP-134486-01
- red/green bicolor Power, Connections, PoCXP
- Input power source: 12V from carrier or 5-12V from USB connector

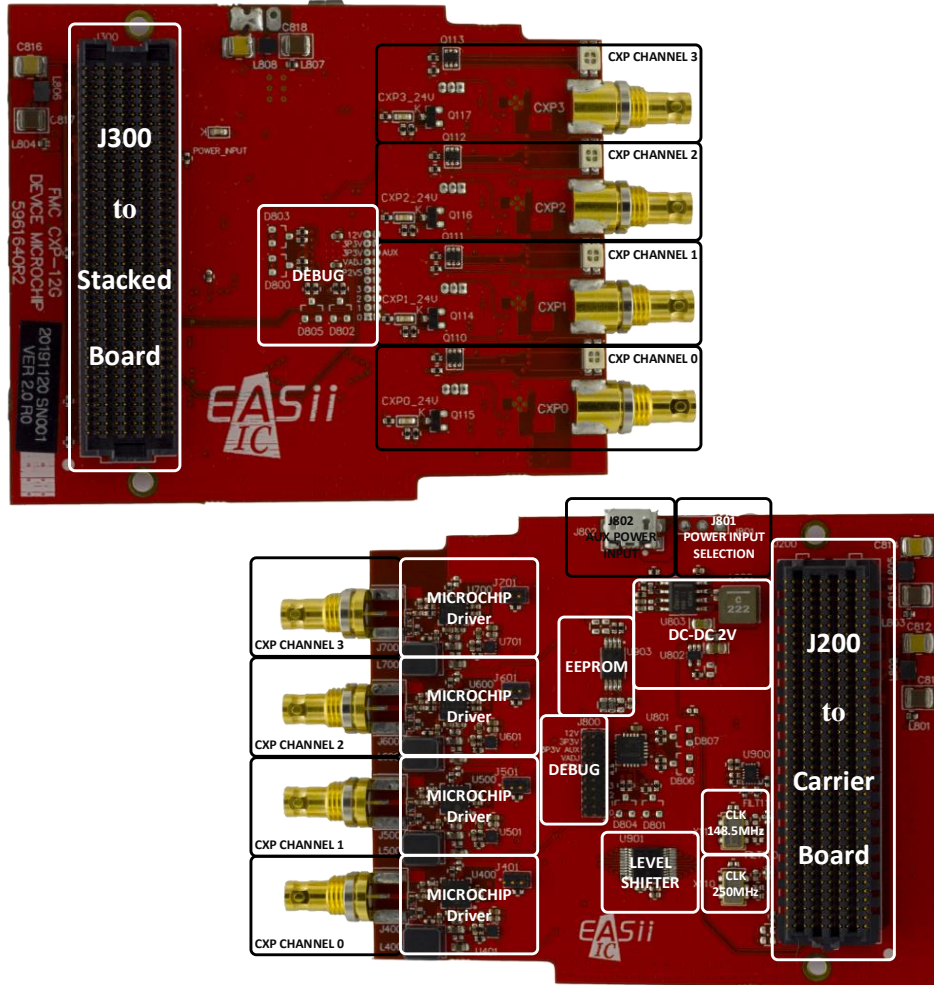
EASII-IC CXP 2.0 DEVICE FMC DELIVERABLES

- FMC Board
- Reference Designs based on EASii-IC CXP 2.0 Device IP
- User Manual

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EASII-IC CXP DEVICE FMC BOARD



CONTACT US

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