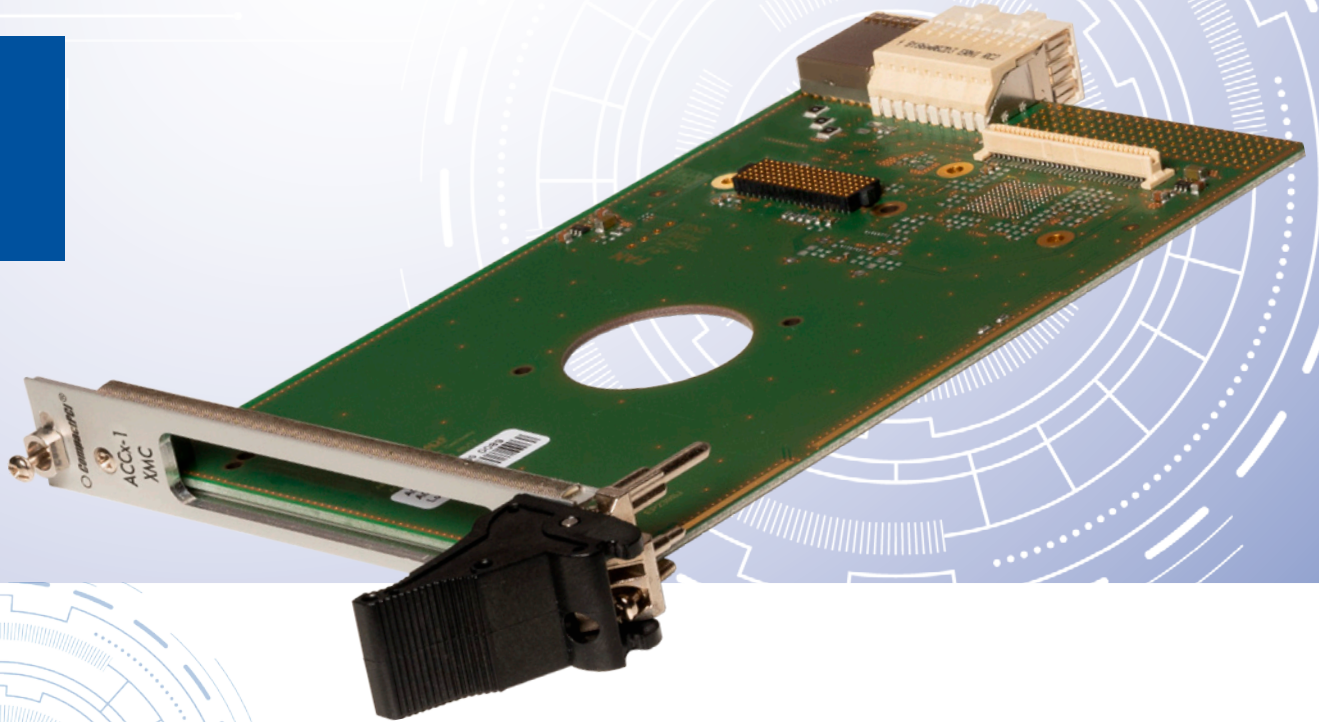# ACCx-1

Compact PCI Express (3U)
Generic Carrier Card for XMC
(ANSI/VITA 42.3 Mezzanine Card) Modules

**Data
Sheet**

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ACCx-1 Block Diagram

General Features

The ACCx-1 is a single slot, single height (3U) ▶ **Compact PCI Express** module with one XMC mezzanine card slot to plug in a standard XMC module.
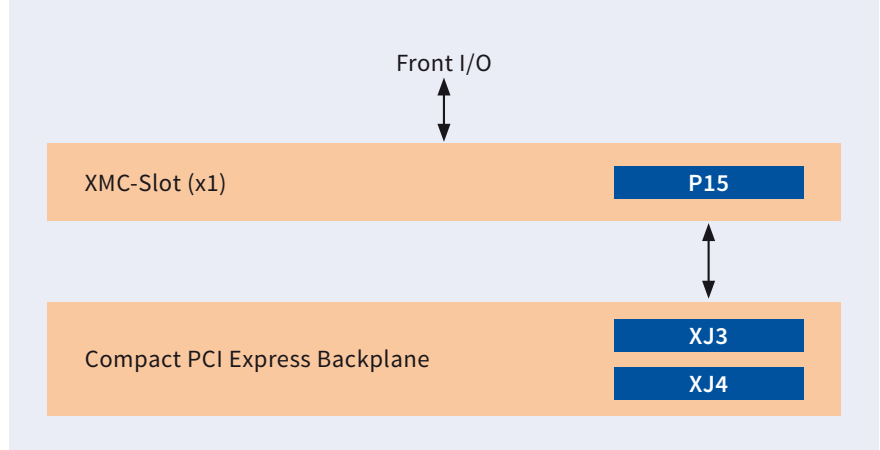
The ACCx-1 fulfills the requirements of the Compact PCI Express specification as well as the requirements of the PCI Express standard. The XMC slot is in conformance with the ANSI/VITA 42.x standard physical and environmental layers for switched fabric mezzanine card compliant with ANSI/VITA 42.3 mezzanine card standard.

XMC Module Interface

The ACCx-1 is designed to plug all standard VITA 42.3 XMC modules and support bus operation of up to 5GBit/s. The following block diagram gives an overview of the ACCx-1 carrier.

Key Features

- Easily configured with any AIM XMC
  ▶ **Databus Module:** AFDX®/ARINC664P7, ARINC429, MIL-STD-1553 or any standard 3rd party VITA 42.3 compliant XMC Module
- Gen 2 PCI Express Bus Operation of 5GB/s Data Rate
- 3U Compact PCI Form Factor
- Fully compliant to Compact PCI Express Specification (Release 2.0)
- XMC standard for VITA 42.0 and VITA 42.3-2006

Technical Data

Compact PCI Express Interface*
- Fully compliant to Compact PCI Express Standard (Release 2.0)
- Single Lane PCI-Express Link, with up to 5GB/s Bandwidth

XMC Interface*
- Provides one XMC Slot
- Fully compliant to PCI Mezzanine Card Standardization IEEE1386.1/Draft 2.4
- Fully compliant to VITA XMC Standard 42.0
- Fully compliant to VITA XMC PCI Express Protocol Layer Standard 42.3-2006
- Single Lane PCI Express Bus Operation up to 5GB/s Data Rate

Connectors
- Compact PCI Express:
  XJ3 High-Speed Advanced Differential Fabric (ADF) Connector for PXIe/cPCIe Bus Interface;
  XJ4 (eHM) Connector for Backplane Power Supply
- XMC: XMC Connector P15 for Single Lane 5GB/s PCI Express Bus

Front Panel
XMC-Bezel standard Breakout Panel

Dimensions
100mm x 160mm

Power Consumption
< 0.1W: (excludes XMC-Module Power Consumption)

Operating Temp. Range
0°C to +70°C standard Operating Range
-40°C to +85°C extended Temperature Range
-45°C to +100°C Storage Range

Humidity
5 to 95% non-condensing

Ordering Information

ACCx-1
cPCIe (3U) carrier module with 1 XMC slot

* Geographical addressing is not supported

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