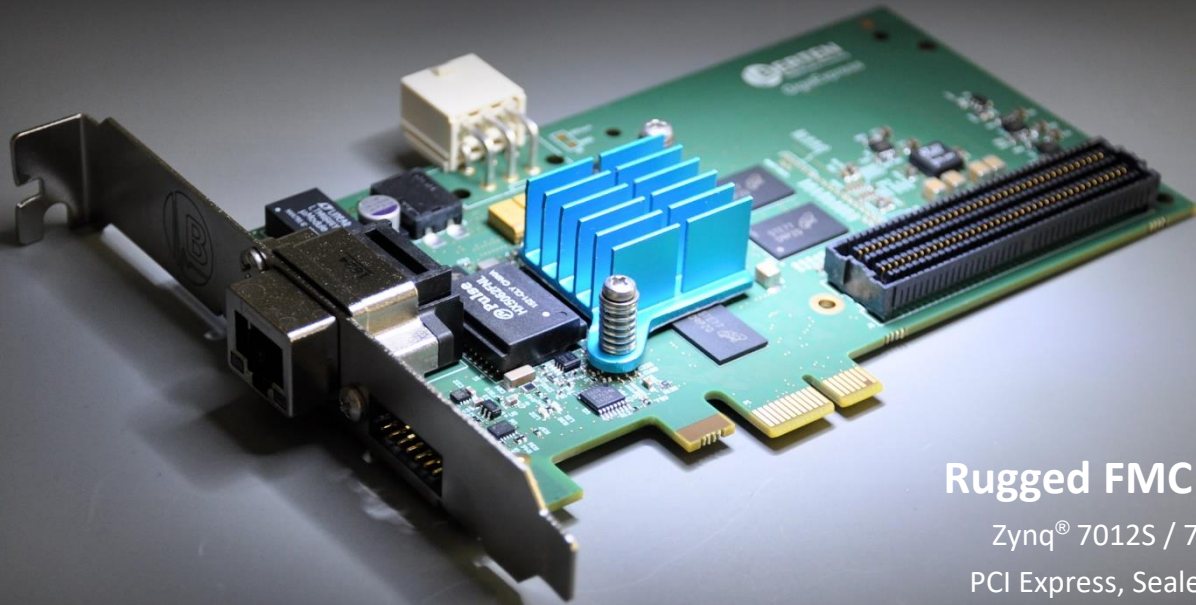


GigaExpress SBC

World's Smallest Zynq FMC Carrier



Rugged FMC Carrier

Zynq® 7012S / 7015 / 7030

PCI Express, Sealed Ethernet

Extended Temperature Range

Dual PS/PL DDR3 SDRAM

Specifications

Processing

Xilinx Zynq® 7012S (-2) / 7015 (-1L, -2) / 7030 (-2L)
SDRAM PS: 1GB DDR3L (x32), 533MHz
SDRAM PL: 512MB DDR3L (x16), 333MHz
512 Mbit QSPI Flash Memory
Accurate clock oscillators

Interfaces

VITA 57 – FMC LPC – Adjustable bank voltage
Ethernet 1000Base-T, IP-68 RJ45
PCIe Gen1 X1 (Z-7015) / Gen2 X1 (Z-7012S, Z-7030)
DC Supply Voltage: +5V to +14V

Mechanical

Dimensions: 138.1 mm x 82.4 mm
Vertical or Right Angle Connectors

Environment

Operating Temperature: -40°C to +85°C
Vibration Robustness, Heatsink with PEMS
RoHS compliant or Sn-Pb Soldering

Options

GigaX API for Zynq SoC

Applications

Embedded Computing
Wideband Communications
Image/Video Processing
Software Acceleration
VITA 57 Carrier Board
On-board Equipment

Overview

With the GigaExpress SBC, using the same hardware from prototyping to operating conditions is possible. The rugged, low power and small design is compatible with final integrations in avionics, ground stations, rack-mount units, and custom enclosures. Ethernet, PCI Express, and FMC interfaces add flexibility and simplify installation in different platforms.

This Single Board Computer (SBC) features Xilinx Zynq® SoC and DDR3L RAM for both processing system (PS) and programmable logic (PL), a key driver for demanding computing applications. Use our GigaX API to jump over PS and transfer directly high-speed data from Ethernet to PL.

