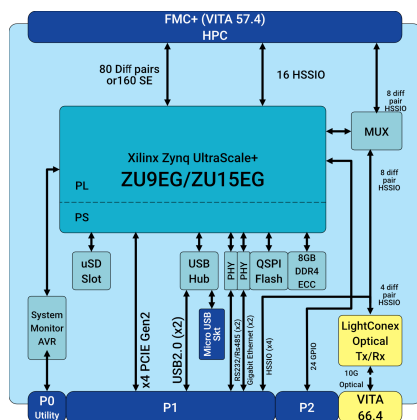
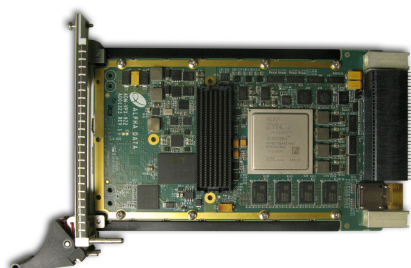


AD01323



Applications

- Embedded System Data Processor
- Radar/Sonar Beamforming
- ELINT/ISR
- Image/Video Processing/Machine Vision
- Digital Signal Processing
- Data Encryption

Board Features

- 8GB DDR4-2400 SDRAM
- FMC+ I/O Interface

Summary

The **ADM-VPX3-9Z2** is a high performance reconfigurable 3U OpenVPX format board based on the Xilinx Zynq UltraScale+ range of MPSoC FPGAs.

Features include PCI Express Gen2 interface (x4), external memory, high density I/O using a Vita 57.4 FMC+ interface, Dual Gigabit Ethernet Interface and 10G Ethernet V66.4 Optical Interface, system monitoring and flash boot facilities.

Target Device

Xilinx Zynq UltraScale Plus
XCZU15EG (FFVB1156)

Host Interface

PCI Express Gen2 x4

FPGA Specification

LUTs = 341k
FFs = 682k
DSPs = 3528
BRAM = 26.2Mb
URAM = 31.5Mb

4x ARM® Cortex™-A53 MPCore™ - 1.5GHz
2x ARM® Cortex™-R5 MPCore™ - 600MHz
1x Mali™-400 MP2 up to 667MHz GPU
1x PCIe® Gen2 x4
2x USB3.0

Application Data Memory

1x 8GB (+ECC) DDR4-2400 SDRAM

Other Memory

64GBBytes of Flash Memory on an embedded Multi Media Card (eMMC v4.5 @1.8V)

Configuration Memory

QSPI 2GBit

Configuration Modes

Flexible boot options from on-board SPI Flash or uSD Flash

Input/Output Interfaces

High-Speed Serial Comms (FMC+)

24x 24 High-Speed differential Serial Links (up to 16.3Gbps)

Discrete Digital (FMC+)

80/160x 80 diff pairs (or 160 single ended) GPIO

Low-Speed Comms (Front Panel)

1x microUSB Interface

High-Speed Comms (VPX connector)

1x 10G Ethernet V66.4 Optical Interface
2x Gigabit Ethernet Interface
2x USB Interface

Low-Speed Comms (VPX connector)

2x RS-232 and RS-232/485 comms ports

Discrete Digital (VPX connector)

24x LVCMOS 3.3V GPIO connections via P2

On-board Storage (Storage)

1x Integrated SATA Storage Device - 32GBBytes

Support

Software and Drivers

Deliverables

ADM-VPX3-9Z2 Board

One Year Warranty

One Year Technical Support

Board Format

3U VPX (OpenVPX Compliant)

Environmental Specification

Cooling Option	Operating Temperatures		Storage Temperatures	
	Min	Max	Min	Max
AC1	-40°C	+70°C	-55°C	+100°C
CC1	-40°C	+70°C	-55°C	+100°C

Operating Humidity : Up to 95% (non-condensing)

Order Code: ADM-VPX3-9Z2/z-2(c)(o)

Zynq Ultrascale+ device	z	15EG = ZU15EG, 9EG = ZU9EG (Contact Sales for availability)
Cooling	c	/AC1 = air cooled industrial, /CC1 = conduction cooled industrial
Optics	o	blank = No Optics fitted, /O = V66.4 Optical Interface fitted