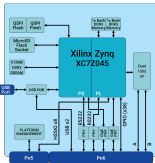


AD01350



### Applications

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

### Summary

The ADM-XRC-7Z4 is a high performance reconfigurable XMC (compliant to VITA 42.0) based on the Xilinx Zynq range of Programmable System-on-Chips.

Features include Ethernet, PCI Express and USB interfaces, external memory, optional dual-redundant MIL-STD-1553 Interface, GPIO, system monitoring and flash boot facilities. Software and Drivers for Linux and VxWorks.

### Target Device

Xilinx Zynq  
 XC7Z045 (FFG900)  
 LUTs = 218k FFs = 437k DSPs = 900  
 BRAM = 19.2Mb  
 2x ARM® Cortex™-A9 MPCore™ up to 1GHz  
 1x PCI® Gen2 x8  
 2x Tri-mode Gigabit Ethernet  
 2x USB 2.0

### Application Data Memory

1x 1GB DDR3  
 2x 256MB DDR3

### Configuration Memory

QSPI 512Mbit Flash Memory

### Configuration Modes

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

### Deliverables

ADM-XRC-7Z4 Board  
 One Year Warranty  
 One Year Technical Support

### Board Features

- 1GB DDR3 (PS)
- 512MB DDR3 (PL)
- microSD Socket
- Tri-Mode Ethernet IFs
- USB 2.0 IFs
- Dual-redundant MIL-STD-1553 Interface
- Air-Cooled/Conduction-Cooled Options

### Host Interface

Ethernet, PCI Express or USB

### Input/Output Interfaces

**Comms**  
 microUSB Interface

### Configuration

JTAG Interface

### HSSIF

Gigabit Ethernet Interfaces - 2x SGMII

### Comms

USB Ports  
 RS-232 and RS-485 Ports

### Discrete Digital

LVC/MOS 3.3V GPIO connections (VITA 46.9 X8d+X12d+X38s compatible pinout)

### Comms

MIL-STD-1553 Interfaces

**Support**

Software and Drivers - contact Alpha Data for further details

**Board Format**

XMC (Switched Mezzanine Card, VITA 42)	ERROR	ERROR	ERROR	ERROR
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**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)

**EMC Standards**

 FCC 47CFR Part 2  
 EN55022:2010 Equipment ClassB

**Conformal Coating Options**

 Acrylic or Polyurethane  
 Contact sales for specification of coatings.

**Ordering Information**
**Order Code: ADM-XRC-7Z4/Z045-1/1/B(c)(a)**

Option	Code	Description of Options
Cooling	c	/AC1 = air cooled industrial, /CC1 = conduction cooled industrial
Conformal Coating	a	blank = no conformal coating, A = Acrylic, P = Polyurethane

**UK Office**

 Address: Suite L4A, 160 Dundee Street,  
 Edinburgh, EH11 1DQ, UK  
 Telephone: +44 131 558 2600  
 Fax: +44 131 558 2700  
 email: [sales@alpha-data.com](mailto:sales@alpha-data.com)
**USA Office**

 611 Corporate Circle, Suite H  
 Golden, CO 80401  
 (303) 954 8768  
 (866) 820 9956 - toll free  
[sales@alpha-data.com](mailto:sales@alpha-data.com)