

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

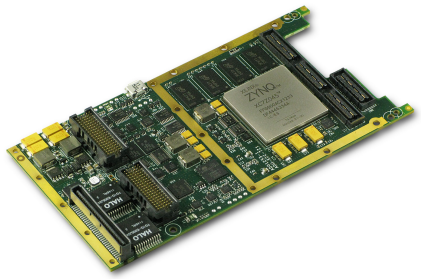
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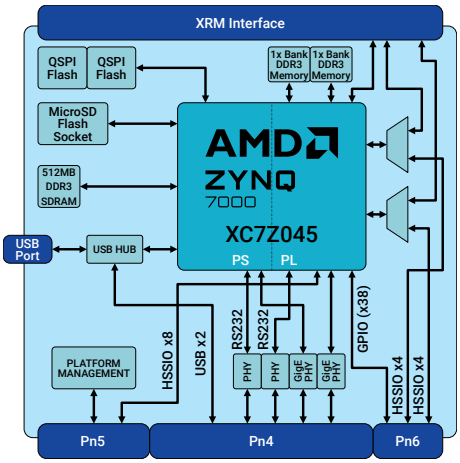
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ADM-XRC-7Z1

Datasheet Revision: 3.1
31st May 2023

AD01253





Applications

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

Board Features

- XRM2 I/O Interface
- 512MB DDR3 (PS)
- 512MB DDR3 (PL)
- microSD Socket
- Tri-Mode Ethernet IFs
- USB 2.0 IFs
- Air-Cooled/Conduction-Cooled Options

Summary

The **ADM-XRC-7Z1** is a high performance reconfigurable XMC (compliant to VITA 42.0) based on the AMD Zynq range of Programmable System-on-Chips.

Features include Ethernet, PCI Express and USB interfaces, external memory, high density I/O, system monitoring and flash boot facilities.

Software and Drivers for **Linux** and **VxWorks**.

Target Devices

AMD Series 7 Zynq
XC7Z045, XC7Z100 (FFG900)

LUTs = 218k FFs = 437k DSPs = 900
BRAM = 19.2Mb(26.5Mb)

2x ARM® Cortex™-A9 MPCore™ up to 1GHz
1x PCIe® Gen2 x8
2x Tri-mode Gigabit Ethernet
2x USB 2.0

Application Data Memory

1x 512MB DDR3 - (Connected to PS - Option for 1GB)
2x 256MB DDR3 - (Connected to PL)
1x microSD

Configuration Memory

QSPI 512MBit Flash Memory

Configuration Modes

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

Deliverables

ADM-XRC-7Z1 Board
One Year Warranty
One Year Technical Support
RD-9Z1 Reference Designs

Host Interface

Ethernet, PCI Express or USB

Input/Output Interfaces

Discrete Digital
LVCMOS/LVDS I/O

HSSIF
High-Speed Serial Links

Comms
microUSB Interface

Configuration
JTAG Interface

HSSIF
Gigabit Ethernet Interfaces

Comms
USB Ports
RS-232 and RS-485 Ports

Discrete Digital
LVCMOS 3.3V GPIO connections (VITA 46.9 X8d+X12d+X38s compatible pinout)

HSSIO
High-SPeed Serial Links

ALPHA DATA
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sales@alpha-data.com

Support

Software and Drivers - contact Alpha Data for further details

Board Format

XMC (Switched Mezzanine Card, VITA 42)

Environmental Specification

Cooling Option	Operating Temperatures		Storage Temperatures	
	Min	Max	Min	Max
AC0	0°C	+55°C	-40°C	+85°C
ACE	0°C	+70°C	-55°C	+100°C
AC1	-40°C	+70°C	-55°C	+100°C
CC0	0°C	+55°C	-40°C	+85°C
CCE	0°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-7Z1/z-2(c)(a)(t)

Option	Code	Description of Options
Zynq device	z	Z045=Z-7045, Z100=Z-7100
Cooling	c	blank = air cooled commercial, /AC1 = air cooled industrial, /CC1 = conduction cooled industrial
Conformal Coating	a	blank = no conformal coating, A = Acrylic, P = Polyurethane
XMC Connector Type	t	blank = XMC (VITA 42) Connectors , /X2 = XMC2 (VITA 61) Connectors
Notes:	Conformal coating not available with air cooled commercial option Contact Sales for other ordering options	

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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