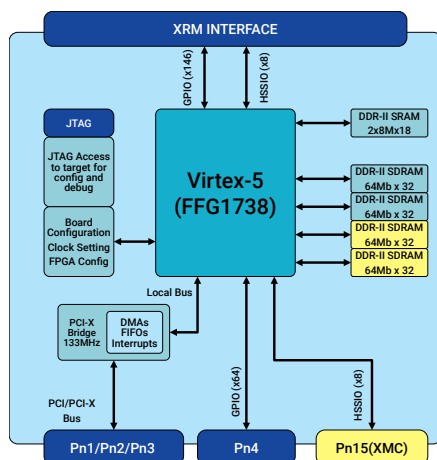


AD01164



### Applications

- Development Platform for Space Grade Virtex-5 systems
- Image/Video Processing
- JPEG2000
- Radar/Sonar Beamforming
- ELINT
- Data Encryption

### Summary

The **ADM-XRC-5T2** is a high performance reconfigurable PMC (PCI Mezzanine Card) based on the Xilinx Virtex-5 LXT, SXT and FXT ranges of Platform FPGAs.

Features include high speed PCI-X interface, external memory, high density I/O, programmable clocks, temperature monitoring, battery backed encryption (by using an appropriate XRM I/O Module) and flash boot facilities.

A comprehensive cross platform API with support for **Microsoft Windows**, **Linux** and **VxWorks** provides access to the full functionality of these hardware features.

### Target Devices

Xilinx Virtex-5  
LX220T, LX330T, SX240T, FX100T, FX130T, FX200T (FPG1738)

### Application Data Memory

2x 512MB DDRII-333 - (2G in 4 banks for LX330T)

### Configuration Memory

BPI 256Mb Flash Memory  
Configured as 2x Target

### Configuration Modes

PCI Bus direct to SelectMAP port  
From Flash direct on power up  
External JTAG connector

### Deliverables

ADM-XRC-5T2 Board  
One Year Warranty  
One Year Technical Support

### Board Features

- 1GB DDRII-333 Memory
- Separate PCI Bridge FPGA
- XRM I/O Interface

### Host Interface

PCI/PCI-X

### Input/Output Interfaces

#### Discrete Digital

LVC MOS/LVDS I/O (Programmable signaling levels of 1.8V)

#### High-Speed|Serial Links

High-Speed Serial Links to XRM2

#### Discrete Digital

GPIO (Programmable signaling levels of 2.5V or 3.3V)

#### High-Speed|Serial Links

High-Speed Serial Links via P15 connector - Only if the 'extra connector fitted' option is chosen

### Support

The ADM-XRC-5T2 is supplied with the ADMXRC Support & Development kit (SDK) along with ADMXRC Driver for Windows / Linux / VxWorks.

### Board Format

PMC/PMC-X (PCI/PCI-X Mezzanine Card, VITA 39)

### Environmental Specification

Cooling Option	Operating Temperatures		Storage Temperatures	
	Min	Max	Min	Max
AC0	0°C	+55°C	-40°C	+85°C
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

### Ordering Information

**Order Code: ADM-XRC-5T2/z-y(m)(c)(x)**

Option	Code	Description of Options
Virtex-5 device	z	LX220T, LX330T, SX240T, FX100T, FX130T, FX200T
Virtex-5 speed	y	1, 2, 3
Memory Size Fitted	m	blank = 512MBytes (2 bank boards) or 1GByte (4 bank boards), /1 = 1Gbyte of Memory (2 bank boards only), /2 = 2GBytes of Memory (4 bank boards only)
Cooling	c	blank = air cooled commercial, /AC1 = air cooled industrial, /CC1 = conduction cooled industrial
HS Serial Connector Fitted	x	blank = not fitted, /X = Connector fitted
Note1	not all FPGA speed grades available in all configurations. Contact Alpha Data for full details.	
Note2	The number of memory banks is dependent on the FPGA device selected. LX330T, SX240T and FX200T - have 4 banks of memory. LX220T, FX100T and FX130T - have 2 banks of memory	