ADM-XRC-5TZ

Datasheet Revision: 1.1

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The ADM-XRC-5TZ is a high performance reconfigurable PMC (PCI Mezzanine Card) based on the Xilinx™ Virtex-5 range 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) 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

Applications:

Military, Aerospace, High Performance Computing, Scientific/ Instrumentation, Broadcast, Medical/Bioinformatics, Telecoms, Security

Target Devices:

Xilinx Virtex-5 - LX110T, LX155T, LX220T, LX330T, SX240T. FX100T, FX130T, FX200T (FFG1738)

ZBT - 48MByte of ZBT SRAM in 6 independent banks (2Mx36 each)

FLASH - 4MByte serial Flash

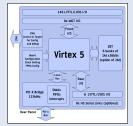
FLASH - Configuration Flash providing an initialisation design for automatic loading into the target FPGA.

Up to 146 LVTTL/LVDS I/O Programmable signaling levels of 1.8V, 2.5V or 3.3Vss 8 High-Speed Serial Links

6 I/O connections via PMC Pn4 connector

Fixed signaling level of 3.3V

8 High-Speed Serial Links via P15 (pseudo-XMC) connector - Only if the "Extra Connector fitted" option is chosen





ADM-XRC-5TZ



Specification			
Product Name	ADM-XRC-6TZ		
Target Devices	Xiinx Virtex-5 - LX110T, LX155T, LX220T, LX330T, SX240T, FX100T, FX130T, FX200T (FFG1738)		
Host I/F	PCI/PCI-X		
Interface	64-bit 66MHz PCI or 64-bit 133MHz PCI-X interface in separate bridge device with 32-bit 80MHz local bus 4 DMA controllers FIPO and interrupt controller.		
Memory	ZBT - 48MByte of ZBT SRAM in 6 independent banks (2Mx36 each) FLASH - 4MByte serial Flash FLASH - Configuration Flash providing an initialisation design for automatic loading into the target FPGA.		
Front I/O	Up to 146 LVTTL/LVDS I/O Programmable signaling levels of 1.8V, 2.5V or 3.3Vss 8 High-Speed Serial Links		
Rear I/O	6 I/O connections via PMC Pn4 connector Fixed signalling level of 3.3V 8 High-Speed Serial Links via P15 (pseudo-XMC) connector - Only if the "Extra Connector fixed" option is chosen		
Special Functions	Option of P15 connector (Pseudo-XMC) providing High Speed Serial link to the carrier		
Clocks	Local bus clock programmable up to 80MHz Low-jitter user clock, programmable up to 637.5MHz Additional 200MHz reference clock for 108 delay circuits.		
Device Configuration	PCI Bus direct to SelectMAP port From Flash direct on power up External TAIR connector		
Software	Drivers for Microsoft Windows™, Linux and VxWorks API with template designs in VHDL and Verilog		
Battery	Dual battery back-up for IP encryption keys via XRM		
Environmental	Temperature: Air coolder option (ACD) Operating Temperature 0" to +05°C Operating Temperature 0" to +05°C Operating Temperature 20" to +05°C Operating Temperature 20" to +05°C Conduction coolder option (CC1) Operating Temperature 40" to 71°C FIG. 47°CRF Part 2 FIG. 47°CR Part 2 FIG.		

Ordering Codes			
ADM-XRC-6TZ/z-y(x)(c)			
Virtex-5 device	z	LX110T, LX155T, LX220T, LX330T, SX240T, FX100T, FX130T, FX200T	
Virtex-5 Speed	у	1, 2, 3	
Cooling	c	blank = air cooled commercial, /AC1 = air cooled industrial, /CC1 = conduction cooled industrial	
HS Serial Connector Fitted	×	blank = not fitted, /X = Connector fitted	

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