





The ADM-XRC-5T2-ADV 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, JPEG2000 codecs, Gigabit serial I/O, programmable clocks, temperature monitoring 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, Broadcast, Medical/Bioinformatics, Security FX100T, FX130T, FX200T (FFG1738)

Target Devices: Xilinx Virtex-5 - LX110T, LX155T, LX220T, LX330T, SX240T,

Memory:

SDRAM - 512MByte in 2 independent banks (1G in 4 banks for LX330T, SX240T and FX200T) of DDR-II SDRAM 2 x 64M x 32-bits @ 333MHz

SSRAM - 8MByte in 2 independent banks of DDR-II SSRAM 2M x 18-bits @ 200MHz

FLASH - 4MByte serial Flash

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

8 High-Speed Serial Links via 2 FCN Connectors (x4 Infiniband type)

Rear Connector I/O:

32 I/O connections via PMC Pn4 connector

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







Specification			
Product Name	ADM-XRC-5T2-ADV		
Target Devices	Xilinx 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 64-bit 80MHz local bus 4 DMA controllers FIFO and interrupt controller.		
Memory	SDRAM - 512MBye in 2 independent banks (1G in 4 banks for LX330T, SX240T and FX200T) of DDR-II SDRAM 2 x 64M x 32-bis @ 333MHz. 3SRAM - 6MBye in 2 independent banks of DDR-II SSRAM 2M x 18-bits @ 200MHz FLASH - 4MByte serial Flach Flash Flash Flash for State 1 independent banks of DDR-II SSRAM 2M x 18-bits @ 200MHz FLASH - 4MByte serial Flash Fl		
Front I/O	8 High-Speed Serial Links via 2 FCN Connectors (x4 Infiniband type)		
Rear I/O	32 I/O connections via PMC Pn4 connector 8 High-Speed Serial Links via P15 connector - Only if the "extra connector fitted" option is chosen		
Special Functions	JPEG2000 Codecs - 4 ADV212 devices Dual FCN Connections Option of P15 connector (Pseudo-XMC) providing High Speed Serial link to the carrier		
Clocks	Local bus clock programmable up to 80MHz Lova-litter 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 JTAG connector		
Software	Drivers for Microsoft Windows™, Linux and VxWorks API with template designs in VHDL and Verilog		
Environmental	Temperature: Air coolide option (ACD) Air coolide option (ACD) Ceperating Temperature (*)* to +65°C Ceperating Temperature (*)* to +65°C Conduction cooled option (CC1) Operating Temperature (*)* to +10°C Ceperating Temperature (*)* to +10°C FOC 47CR Part 2 FOC 47CR Part		

Ordering Codes			
ADM-XRC-5T2-ADV/z-y(m)(c)(x)			
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	
Memory Size Fitted	m	blank = 512MBytes (2 bank boards) or 1GByte (4 bank boards), /1 = 1Gbyte of Memory, /2 = 2GBytes of Memory	
HS Serial Connector Fitted	×	blank = not fitted, /X = Connector fitted	
Note	#	The number of memory banks is dependent on the FPGA device selected. LX330T, SX240T and FX200Ts- have 4 banks of memory. LX110T, LX155T,sLX220T, FX100T and FX130T - have 2 banks of memory memory.	

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