

## XRM-ADC-D3/1G5

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#### Summani

The XRM-ADC-D3/1G5 is an I/O Module which provides two Analog to Digital converters with a sampling rate up to 1.5GHz.

The design is based around the ADC08D1500 by National Semiconductors. Both channels are 8-bit resolution and sampling rates up to 1.5GHz. It is aimed at applications such as IF/Baseband Signal Sampling. An external clock source may be used or an internal clock can be used to provide the sampling clock. An auxiliary I/O port is provided for use as a trigger or

general purpose signal. Separate high speed signals are provided to allow synchronisation across multiple XRM-ADC-D3/1G5 hoards

boards. The bull-in thermal monitor allows the user to check the operating temperature of the ADC. Provided as part of the sample design is the functionality to read the temperature of the device, and software to monitor this and recalibrate the ADC if the thermal drift is sufficient. The software will also shut the ADC down if the device starts to go over the maximum operating temperature.

## Features Applications:

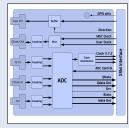
IF/Broadband Signal Sampling

Dual 8-bit ADC up to 1.5GHz

Clock in Clock Out

Auxiliary I/O port

Dual external synchronisation ports





# XRM-ADC-D3/1G5



Specification					
Product Name XRM-ADC-D3/1G5					
Front I/O	Deal chamel ADC: Duel bit ADC up to 1,5GHz resolution - 5 Bit Itms - 1,5GHz Itms - 1,5				
XRM2	The XRM-ADC-D3/1G5 is also available for XRM2 based FPGA products.				
Special Functions	The XRM has built-in thermal monitoring of the ADC				
Software	Example UCF, HDL files and Application software are provided with the board.				
Environmental	Respectator: Are coded spring The 450°C?  1- It is essential that sufficient air-coding is provided, if thermal monitoring is provided on board then this discuss be used to that the device down it is starts to overhead in order to reduce the possibility of damaging the EMC: EMC: EMC: EMC: EMC: EMC: EMC: EMC:				

		Ordering Codes	
	XRM(xver)-ADC-D3/1G5(con)(h)		
XRM Version	xv- er	blank=Original XRM (FPGA products up to Virtex-5), 2=XRM Version 2 (FPGA products Virtex-6 and later)	
Connector Option	con	/blank=SMA(7mm standard), /SMA20=Long Barrel SMA(20mm), /SMB, /SMC	
Heatsink	h	blank = No Heastink, HTSK.XRM.ADC-HS.1 = Heatsink Fitted	

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