

XRM2-ADC-D7/500

31st March 2019

Datasheet Revision: 1.0



IF/Baseband Signal Sampling

Board Features

- Dual 12-bit 500Msps ADCs
- External Clock Input

Summary

The XRM2-ADC-D7/500 is an XRM2 I/O Module, providing two Analog to Digital converters with 12-bit resolution and sampling rates up to 500Msps

Aimed at IF/Baseband Signal Sampling, the sampling clock can be sourced from either an external clock source or from a clock generated within the attached FPGA board. A Trigger UD port is provided for use as a trigger control and an Auxiliary I/D port for general purpose signaling. An additional two corts are available for use as high-speed intercommet between boards for swnchronization.

Deliverables

XRM2-ADC-D7/500 Board One Year Warranty One Year Technical Support

Input/Output Interfaces

2x Dual Analog to Digital Converters

Resolution: 12-bit Max Sample Freq: 500Msps Bandwidth: 4.5 MHz to 700 MHz (3 dB) Impedance: 500 Connector: SMA

1x External Clock Input

Impedance: 50D - AC coupled Levels: 0 dBm (640 mV pk to pk) to +12 dBm maximum (2.5 V pk to pk) nominal Connector: SMA

1x Trigger VO

Impedance: 4k70 (DC coupled) Levels: +3V3 LVTTL Connector: SMA

1x Auxiliary I/O

Impedance: 4k70 (DC coupled) Levels: +3V3 LVTTL Connector: SMA

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Support

Example UCF, HDL files and Application software are provided with the board.

Environmental Specification

Temperature Ranges

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

Operating Humidity : Up to 95% (non-condensing)

EMC Standards

FCC 47CFR Part 2 EN55022:2010 Equipment ClassB

ordering Informatio

Order Code: XRM2-ADC-D7/500

Address: 160 Dundee Street, Suite 4A, Edinburgh, EH11 1DQ, UK Telephone: +44 131 558 2600 Fax: +44 131 558 2700 email: sales@alpha-data.com website: http://www.alpha-data.com Address: 611 Corporate Circle Suite H Golden, CO 80401 Telephone: (303) 954 8768 Fax: (866) 820 9956 - toll free email: sales (8alpha-data.com website: http://www.alpha-data.com