



## Applications

- RF/IF Signal Sampling/Generation
- High Speed Analog Data Capture.
- High Speed Analog Signal Generation

## Summary

The **XRM2-DA5** is an I/O Module which provides dual channel ADC and single channel DAC interfaces.

The XRM2-DA5 is designed for use with Alpha Data's XRM2 compliant carrier cards. It provides the user with dual high speed Analog to Digital Converters at 14bits/3GHz and a single high speed Digital to Analog converter at 16bits/1GHz along with an external clock input and clock output and a number of bidirectional trigger/synchronisation signals.

## Deliverables

XRM2-DA5 Board  
 One Year Warranty  
 One Year Technical Support

## Board Format

Alpha Data XRM2 I/O Module

## Input/Output Interfaces

### 2x Dual Analog to Digital Converters

Resolution: 14-bit  
 Max Sample Freq: 3 GHz  
 Bandwidth: 1MHz to 1500MHz nominal  
 Impedance: 50 Ohm  
 Connector: MMCX

FSI Range adjustable in 1 dB steps

### 1x Single Digital to Analog Converter

Resolution: 16-bit  
 Max Sample Freq: 1GHz  
 Bandwidth: 350MHz  
 Impedance: 50 Ohm  
 Connector: MMCX

### 1x External clock input

The external clock input is only used as an input to the clock synthesiser circuitry

### 2x Bidirectional Trigger Signal

### 1x Internal Clock

On-board precision oscillator

**Support**

No specific software required

**Environmental Specification****Temperature Ranges**

Cooling Option	Operating Temperatures		Storage Temperatures	
	Min	Max	Min	Max
AC1	-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: XRM2-DA5**

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