



## IF/Baseband data signal generation

## Board Features

- Dual 16-bit 1Gbps DACs
- External Clock Input

## Summary

The **XRC2-DAC-D4/1G** is an XRM2 I/O Module, providing two Digital to Analog converters with 16-bit resolution and sampling rates up to 1GHz.

Aimed at IF/Baseband signal generation, provision is made for use of either an external or internally generated clock source. External trigger and auxiliary I/O ports are also provided.

## Deliverables

XRM2-DAC-D4/1G Board  
 One Year Warranty  
 One Year Technical Support

## Input/Output Interfaces

### 2x Dual 16-bit DACs up to 1GHz

Resolution: 16-bit  
 Max Sample Freq: 1000MHz  
 Bandwidth: 350MHz  
 Impedance: 50Ω (AC coupled)  
 Connector: SMA

### 1x External clock input

Impedance: 50Ω (AC coupled)  
 Levels: +12dBm nominal (2.5V pk to pk)  
 Connector: SMA

### 1x Trigger I/O

Impedance: 4kΩ (DC coupled)  
 Levels: 3.3V LVTTTL  
 Connector: SMA

### 1x Auxiliary I/O

Impedance: 4kΩ (DC coupled)  
 Levels: 3.3V LVTTTL  
 Connector: SMA



**Support**

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

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

Cooling Option	Operating Temperatures		Storage Temperatures	
	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 Information****Order Code: XRM2-DAC-D4/1G(u)**

Option	Code	Description of Options
XRM2 Keying	u	blank = keyed connector, /U = unkeyed connector

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