

# XRM2-RF-ATD

31st March 2019

## Datasheet Revision: 1.1

#### RF Signal Sampling/Generation

# Board Features

- · Dual 12-bit 6Gsps ADCs
- Dual 12-bit 6Gsps DACs



### External Clock Input





The XRM2-RF-ATD is an XRM2 I/O module, providing two full duplex RF channels at center frequencies between 70 MHz and 6 GHz. Intended for use in FPGA-based general-purpose radio

# systems.

This board provides Frac-N based synthesis of local oscillator signals for up/down conversion, digital

filtering and 12-bit quantization of baseband data. Channel bandwidths are software selectable from 200 kHz to 56 MHz. Real-time monitor signals.

control signals for manual and automatic gain control and base-band synchronization of multiple devices are supported. The application can use either the internal clock or an externally provided

Deliverables XRM2-RF-ATD Board One Year Warranty One Year Technical Support

#### Input/Output Interfaces

2x Dual Analog to Digital Converters Resolution: 12-bit

Max Sample Freq: 6Gsps Bandwidth: 70MHz to 6000MHz nominal Impedance: 500 Connector: SSMC

## 2x Dual Digital to Analog Converters

Resolution: 12-bit Max Sample Freq: 6Gsps

Bandwidth: 70MHz to 6000MHz nominal Impedance: 500 Connector: SSMC

# 1x External clock input

Impedance: 500 Connector: SSMC





#### 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
AC1	-40°C	70°C	-55°C	100°C
CC1	-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

Conformal Coating Options Acrylic or Polyurethane

Contact sales for specification of coatings.

# Ondering Information Order Code: XRM2-RF-ATD(a) Option Code Usins - no conformal costing, As - Applic, Conformal Costing As - Applic, As - Applic, Note: No bud option for Options Note: No bud options for Options No bud options for Options

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