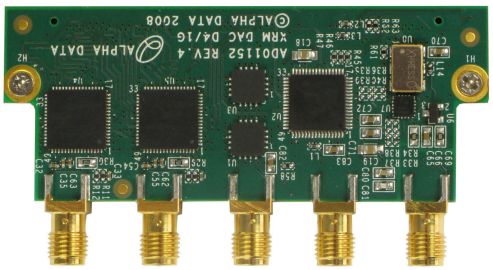
# XRM-DAC-D4/1G

ALPHA DATA

**29th July 2014** **Datasheet Revision: 2.0**



## Summary


The **XRC-DAC-D4/1G** is an I/O Module which provides two 16-bit Digital-to-Analog convertors sampling at up to 1GHz.

It is 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.

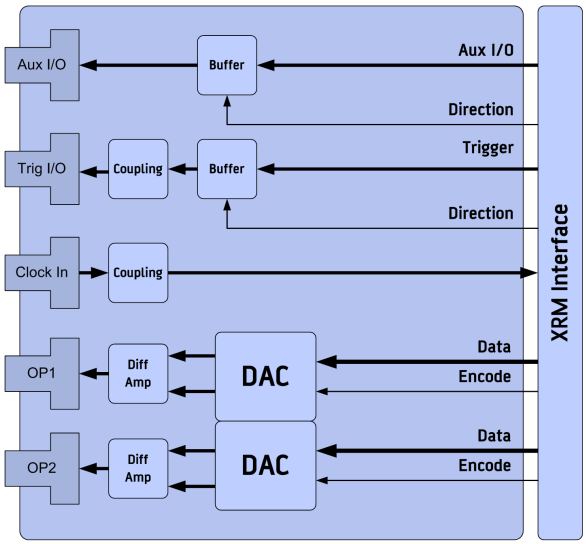

## Features

**Applications:**

- IF/Baseband data signal generation

**Front Connector I/O:**

- Dual 16-bit DACs up to 1GHz
- External Clock Input
- Trigger I/O port
- Auxiliary I/O port



# XRM-DAC-D4/1G

| Specification | |
|---|---|
| Product Name | XRM-DAC-D4/1G |
| Front I/O | **Dual Channel DAC:** Dual 16-bit DACs up to 1GHz<br>resolution = 16-bit<br>levels = ±1V (open circuit)<br>±500mV (50Ω load)<br>fmax = 1000MHz<br>bandwidth = 350MHz<br>connector = SMA SMA-L SMB SMC<br>**External Clock:** External Clock Input<br>impedance = 50Ω AC<br>**External Trigger I/O:** Trigger I/O port<br>levels = 3.3V LVTTL<br>impedance = 4k7Ω, dc coupled<br>External Trigger signal<br>**External Auxiliary I/O:** Auxiliary I/O port<br>levels = 3.3V LVTTL<br>impedance = 4k7Ω, dc coupled<br>External Auxiliary signal |
| XRM2 | The XRM-DAC-D4/1G is also available for XRM2 based FPGA products. |
| Software | No specific software required |
| Environmental | **Temperature:**<br>Operating Temperature 0° to +55°C<br><br>**EMC:**<br>FCC 47CFR Part 2<br>EN55022 Equipment Class B |

| Ordering Codes | | |
|---|---|---|
| XRM(xver)-DAC-D4/1G(con)(u) | | |
| XRM Version | xv-er | blank = Original XRM (FPGA products up to Virtex-5),<br>2 = XRM Version 2 (FPGA products Virtex-6 and later) |
| Connector Option | con | blank = SMA (7mm standard),<br>/SMA20 = Long Barrel SMA (20mm),<br>/SMB, /SMC |
| XRM2 Keying | u | blank = keyed connector,<br>/U = unkeyed connector |

Address: 4 West Silvermills Lane,
Edinburgh, EH3 5BD, UK
Telephone: +44 131 558 2600
Fax: +44 131 558 2700
email: sales@alpha-data.com
website: http://www.alpha-data.com

Address: 3507 Ringsby Court Suite 105,
Denver, CO 80216
Telephone: (303) 954 8768
Fax: (866) 820 9956 toll free
email: sales@alpha-data.com
website: http://www.alpha-data.com