
**Summary**

The **XRM-ADC-D9** is an I/O Module which provides two Analog to Digital converters with 14-bit resolution at sampling rates up to 500MHz.

The XRM is aimed at IF/Baseband Signal Sampling. An external clock source may be used or an internally generated clock can be used to provide the sampling clock. An Auxiliary I/O port is provided for use as a trigger input and general purpose signaling. An additional two ports are available for use as high-speed interconnect between boards for synchronisation.

**Features**
**Applications:**

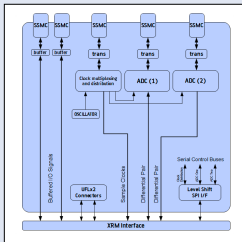
IF/Baseband Signal Sampling

**Front Connector I/O:**

Dual ADC Input

Clock In

Auxiliary I/O port



**Specification**

Product Name	XRM-ADC-D9
Front I/O	<p><b>Signal Input:</b> Dual ADC Input  <math>f_{max} = 500\text{Mpsps}</math>          resolution = 14-bit (500Mpsps)          bandwidth = 4.5MHz to 700MHz          levels = +10dBm          impedance = 50 Ohm          connector = SSMC  <b>Note:</b> exceeding the maximum signal limit may result in permanent degradation of converter performance.</p> <p><b>Clock In:</b> Clock In  <math>f_{clock} = f_{max}</math>          levels = 3v3          impedance = Impedance?  <b>Note:</b> Exceeding the maximum voltage limit may result in permanent degradation of converter</p> <p><b>Aux I/O Port:</b> Auxiliary I/O port          levels = 2V5 Logic (dc coupled)          connector = UFL          User configurable as inputs or outputs, signals direct to FPGA pins.  <b>Note:</b> signals on these connectors must be restricted to 2V5 logic otherwise damage may result.</p>
XRM2	The XRM-ADC-D9 is also available for XRM2 based FPGA products.
Software	Example UCF, HDL files and Application software are provided with the board.
Environmental	<p><b>Temperature:</b>          Air cooled option          Operating Temperature 0° to +55°C†          † - It is essential that sufficient air-cooling is provided, if thermal monitoring is provided on board then this should be used to shut the device down if it starts to overheat in order to reduce the possibility of damaging the devices.</p> <p><b>EMC:</b>          FCC 47CFR Part 2          EN55022 Equipment Class B</p>

**Ordering Codes**
**XRM(xver)-ADC-D9**

XRM Version	xv- er	blank=Original XRM (FPGA products up to Virtex-5), 2=xXRM Version 2 (FPGA products Virtex-6 and later)
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