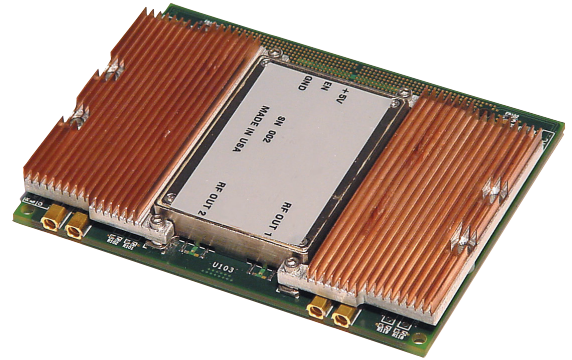


ADCXB 2 Gsample/s A/D Converter

The ADCXB is a GPIOX card with two coherent A/D converter channels and precision 2 GHz clock source. The 10 bit A/D outputs connect to the User Logic chips on the MAP® via an in-package 4-way Demux. The channels can be used either independently or in a coherent fashion such as for the capture of Angle of Arrival information. Inputs to the card are differential but can be used in single ended mode by adding a 50 ohm terminator to one of the differential input legs. The card also has an RS232 port to allow the user to connect additional equipment for collecting such information as navigation or GPS data. The ADCXB card can be used with all SRC® products that support GPIOX.



Parameter	Value
A/D Converter with 1:4 DMUX	e2V AT84AS004*
Sample Rate	2 Gsamples/second
Number of A/D Output Bits	10
Number of Demux Output Bits	40
Number of A/D Channels	1 or 2
Differential Input Impedance	100 ohms internally terminated
Single Ended Input Impedance	50 ohms internally terminated
Input Connectors	MCX female**
Maximum Input Amplitude	750 mv P-P
Maximum Input Level	+/-375 mv
Full Scale Input Amplitude	500 mv P-P
Clock Frequency	2 GHz; for alternate frequencies contact SRC
Clock Frequency Stability	+/- 100 ppm maximum
Clock Phase Noise	
10 KHz	-120 dBc/Hz
20 KHz	-125 dBc/Hz
10 MHz	-130 dBc/Hz
100 MHz	-145 dBc/Hz
Clock Output Type	Dual differential
Phase Difference	180 +/-15 Degrees
RS232	Commercial Micro D plug R/A9 Supports TD, RD, RTS, CTS signal protocol

* For current detailed specifications see e2V data sheets.

** When used with the "6U" MAPstation™ system, jumper cables will convert these to female SSMA connectors at the front panel.