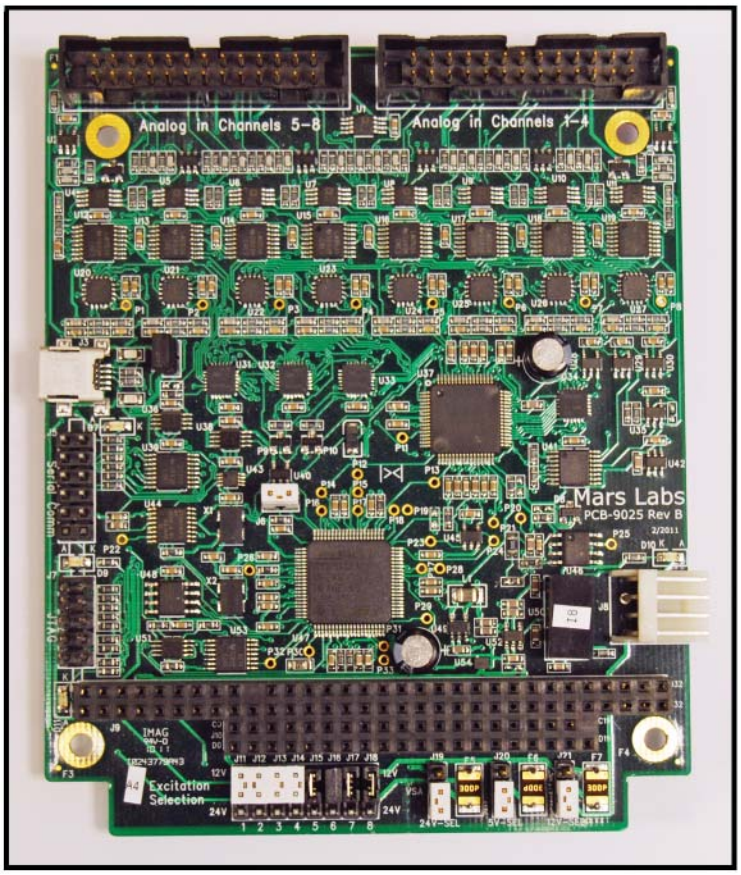
MARS LABS
Partners in Precision Performance

TITAN 8-Channel Input Board

ADF08H-54

8 Channel Data Acquisition Board
in a PC/104 form factor

ADF08H-54 Specifications:



Mechanical Form Factor:	PC/104 (the PC/104 bus supplies power only)
Number of Channels:	8 fault-tolerant channels
Sample Rates:	Up to 10,000 samples per second per channel (High Speed operation) Up to 1200 samples per second per channel (Low Speed operation)
A/D Specification:	Eight simultaneous Sigma-Delta ADCs, 24 bit resolution with 16 bits exported Dynamic range: 96 dB SNR: Approx. 90dB at 1200 samples per second with a 200 Hz filter
Programmable Gain:	1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512; ±32V Full scale input voltage max.
Gain Accuracy:	Gains 1-512 (dividers off): > 500 ppm Gains 1/16 through 32 (dividers on): > 600 ppm
Common Mode Rejection:	Input dividers off: >100 dB (Gain = 1) Input dividers on: 60 dB typical
Programmable Filter:	10 pole Linear phase tracking filter (High Speed operation) 8 pole Butterworth (Low Speed operation)
Calibration Modes:	Resistive (RCal): ±100K Ohms per channel for shunt calibration Voltage (VCal): Precision positive and negative calibration voltages provided
Excitation:	2.048 V
Excitation Accuracy:	Better than 500 ppm
Input Impedance:	16K ohm (input dividers on); > 100M ohm (input dividers off)
Analog Sensor Support:	Full Bridge resistive type - strain gauges, load cells, accelerometers, etc. Voltage Input — up to ±32 Volts
Board Communications:	RS-422 Serial output or micro-USB full speed connection
RS-422 Baud Rates:	115200, 921600, 3M baud
Input Power:	5V at 250mA
Dimensions:	11.1 cm x 9.3 cm x 2.1 cm (L x W x H)

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