

DATA AQUISITION

The **DAQ** device is designed to support a single magnetometer sensor. Two types of sensors are supported, **DC** and **AC** type. The device includes a DSP to provide the appropriate processing power to handle the data acquisition and achieve synchronous sampling from all three X, Y, and Z sensor channels.

A micro SD card is included used for data storage. Connecting to a computer is achieved via a USB connection. Also, the device also supports synchronous data acquisition between two or more different devices using a simple wired connection. It is battery powered with a built in charger. A 9-pin D-SUB connector is provided for interfacing with the external connector.

Main Features

Supports AC and DC sensors

Synchronous sampling from all three axis (X,Y,Z)

16-Bit Resolution

MicroSD for data storage

Can support synchronous data acquisition between two or more devices



A Cost Effective Data Acquisition Card

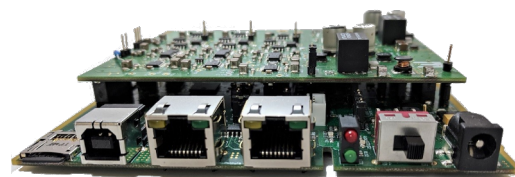
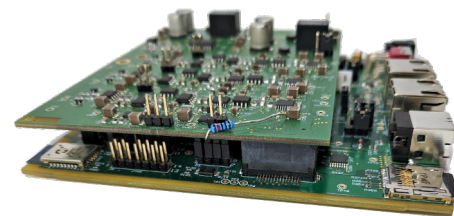
for AC and DC measurements

Specifications*

Number of channels	3 (X, Y, Z)
Sampling Rate	0.5 MSPS
Resolution	16-bit
Simultaneous acquisition	Supported
Sensor type support	DC & AC (Separate device)
Built-in power supply for sensor	Yes
Input range	$\pm 10V$, $\pm 5V$, $\pm 2V$, $\pm 1V$
Power Consumption	4 Watts max
Input power	5V
Operation from external power supply	Yes
Battery operation	Yes
Built-in Battery Charger	Yes
Storage	Micro SD card
Connectivity	USB 2.0, type B
Continuous operation	Up to 3 hours
Enclosure	Aluminum 160x130x50 mm



Elements



*Specifications may be change without prior notice

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