

Customized High-Performance Data Acquisition Boards

Electro Standards' Engineering Design Team has the experience to deliver products that work!

Electro Standards Laboratories (ESL) will custom-engineer and build to your specs. Because ESL has its own manufacturing capabilities, the ESL Engineering Services Group can design, build and deliver custom products for each project in prototype or production quantities. This guarantees functionality and performance along with unsurpassed quality control.

Experience Counts!

ESL's expertise includes:

- embedded controls
- sensorless motor controls
- multi-level inverters
- controls modeling and simulation for motor drive systems
- energy storage
- energy harvesting

ESL is significantly involved in a number of projects including:

- Electromagnetic Aircraft Launch Systems (EMALS)
- Advanced Arresting Gear systems (AAG)
- hybrid electric vehicles
- precision instrumentation.

We work with our clients from theory to simulation, design, development, programming, etc., to develop working systems.

Call 401.943.1164

or email:

eslab@electrostandards.com

www.ElectroStandards.com



Electro Standards Laboratories

36 Western Industrial Drive
Cranston, RI 02921



Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES



CellMite® ProD
High-Performance
Embedded Data Acquisition



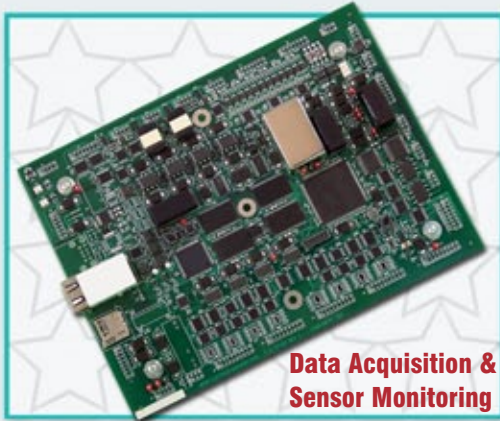
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- Standard & Custom Designs
- DAQ & Strain Gage
- DAQ & Sensor Monitoring
- Ruggedized, High Speed
- High Accuracy

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Electro Standards Laboratories
36 Western Industrial Drive
Cranston, RI 02921 - Tel: (401) 943-1164

CellMite® ProD Model 4333



Ruggedized High Performance Embedded Data Acquisition and Sensor Monitoring Node

CellMite® ProD Model 4333 - Creates both a low speed monitoring data stream and a high speed transient event data stream that measure and report static and pulsed sensor events.

Typical sensors include: load cells • temperature sensors • strain gages • general analog outputs • voltages • currents • pulse counting • and digital contacts.

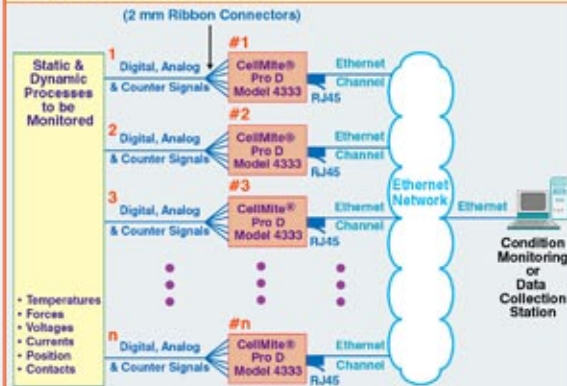
Monitor complex systems with multiple CellMite® ProD boards as Ethernet monitoring nodes within an Ethernet network.

CellMite® ProD Model 4333 features 11 channels of 24-bit analog inputs that can be sampled up to 10,000 samples/sec. Digital data acquisition is also supported with 64-bits of simultaneously sampled digital inputs, and 3 digital counter inputs that are also sampled at up to 10,000 samples/sec.

Some customization is available, if required by your specific sensor monitoring application.

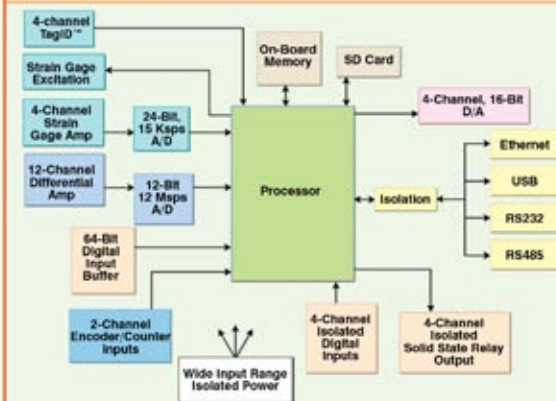
CellMite® ProD App Notes

CellMite® ProD Model 4333 Typical Application



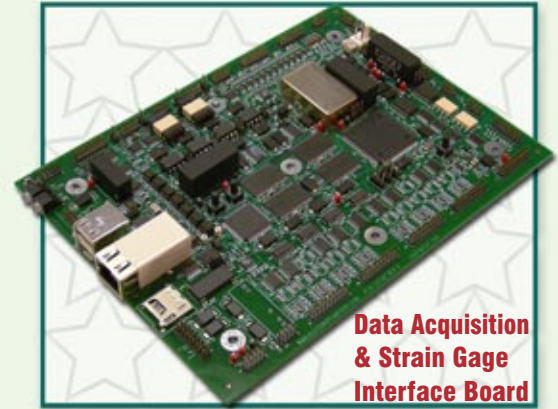
See full size diagram for Model 4333 on website: www.electrostandards.com/ProductDetail/?productid=115

CellMite® ProD Model 4328 Typical Application



See full size diagram for Model 4328 on website: www.electrostandards.com/ProductDetail/?productid=1819

CellMite® ProD Model 4328



Ruggedized High Performance Embedded Data Acquisition and Strain Gage Interface Board

CellMite® ProD Model 4328 features dual 24-bit independent strain gage channels with simultaneous sampling at 15K samples/sec. Model 4328 can be configured as quad 24-bit strain gage channels sampled at 5K samples/sec. Model 4328 features 12 additional 12-bit analog input channels with a throughput of 1M samples/sec.

Digital data acquisition is supported with 64-bits of simultaneously sampled digital inputs. The digital inputs can be sampled at 20M samples/sec. CellMite® ProD Model 4328 has four 16-bit high performance analog output channels with user-specified scaling and offset with a range of +/-10 volts.

Direct PC or network communication is supported by USB, RS232, RS485 and Ethernet data channels. Model 4328 supports dual quadrature encoder or pulsed inputs for measuring rotational position or velocity.

Some customization is available, if required by your specific strain gage interface application.