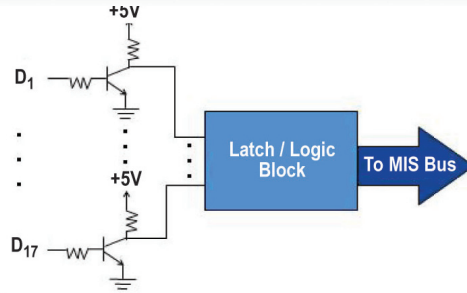


# Dynetics Modular Instrumentation System

## 33-Channel Analog / Digital Input Module

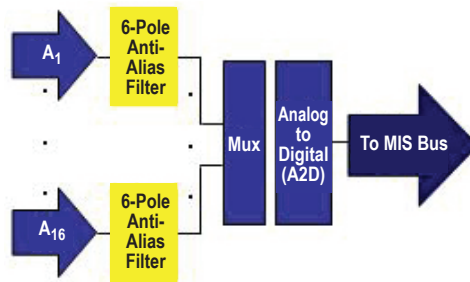
### Digital / Discrete Inputs

- ◆ 17 discrete inputs
- ◆ Process individual or data bus signals
- ◆ Internal logic-block processing (latches, AND/OR, etc.)
- ◆ -50- to 50-V input discrete levels
- ◆ One 25-contact duallobe receptacle (radial) interconnect



### Analog Inputs

- ◆ 16 differential inputs
- ◆ Factory-programmed gain and offset
- ◆ Input levels: max 50 V to min 5 mV
- ◆ Offset: +/-25 V
- ◆ 6-pole factory-configured anti-alias filters (bessel or butterworth)
- ◆ Two 37-contact duallobe receptacles (radial-opposed) interconnect
- ◆ Input impedance factory-configured (1.0 MΩ nominal)



### Resolution

- ◆ 8, 10, 12, 14 bits

### Interface

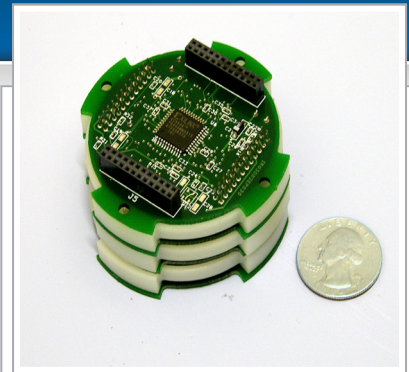
- ◆ Compatible with MIS architecture

### Physical

- ◆ Diameter 2.375" min
- ◆ Height 0.92" min
- ◆ Weight 100 g min

### Environmental

- ◆ Temperature: MIL-STD 810 E -40 to +85 °C
- ◆ Random vibration: MIL-STD 810 E 10 to 2000 Hz at 14-g RMS
- ◆ Sinusoidal vibration: MIL-STD 810 E 20 to 2000 Hz at 20-g Pk
- ◆ Axial acceleration: MIL-STD 810 E 150 g for 52 sec
- ◆ Shock: operationally tested 120 g for 50 msec



### 33-Channel Analog / Digital Input Module Highlights

Factory-configurable for a variety of digital/discrete and analog inputs to satisfy customer-specified gains and offsets. Applications include:

- ◆ Monitoring discrete events
- ◆ Processing accelerometer and strain gauge inputs
- ◆ Monitoring single-ended or differential voltages
- ◆ Acquiring data from a digital data bus

This module works in concert with the Dynetics Modular Instrumentation System (MIS) PCM Encoder/Data Recorder and Power Supply Modules to provide a complete data acquisition solution.

Multiple MIS input modules can be connected to meet the requirements of applications where large numbers of input signals are necessary.

#### For More Information:

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