Miniature Network Data Acquisition and Encoding Unit

Applications

- Flight test instrumentation
- Ethernet based network distributed systems
- System safety monitoring

Features

- Network-based data acquisition and encoding unit
- Includes Fast Ethernet 100BASE-T port for:
  - acquisition setup and configuration
  - SNMP status/control
  - acquisition data transport
  - time synchronization using IEEE 1588 time
- Plug-in modularity and expandability; accepts up to 31 plug-in signal conditioning/converter modules; able to condition most sensor/transducer types
- Acquisition bandwidth up to 1.25 MSPS
- HTTP web interface for dynamic parameter adjustment
- SNMP MIB for statistics monitoring
- Available in environmentally sealed or unsealed package
- Small installation footprint
- Microsoft Windows application software included

Description

The MnACQ-2000 is a miniature networked encoding unit that processes and delivers packetized data to designated network nodes.

It consists of an IEEE 1588 time and Ethernet overhead module, as many as 31 signal conditioning/converter modules, a PowerPC® processor module, a +28 VDC +/- 4 VDC power supply (versions available to deliver up to 230 watts), and a supporting end plate.

Any of TTC's commercial signal conditioning/converter modules are fully compatible, including the ability to condition and encode sensor/transducer data for transmission on Ethernet. Data resolution typically ranges from 12-16 bits per word, with sample rates ranging as high as 1.25 MSPS.

The MnACQ-2000 handles an extremely wide range of sensors and transducers. This stacked arrangement of modules has a primary internal communication bus called the "R-Bus" (Remote Bus) that is used to transfer power, control, configuration, and data among the modules. Power supplies are available in configurations optimized to support a variety of combinations of modules.

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MnACQ-2000 Datasheet

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