

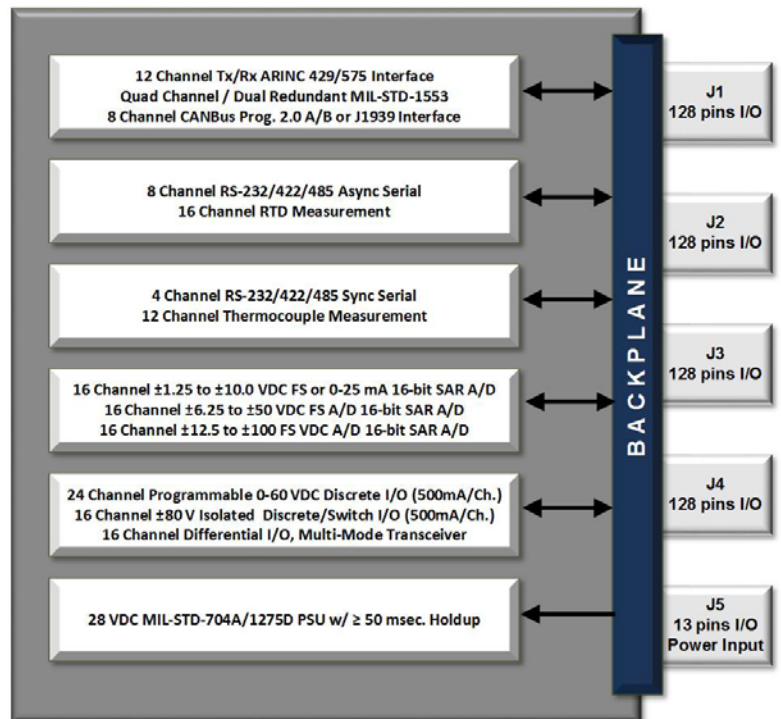


DAQ-35CPOG – Data Acquisition System

Off-the-shelf, 3U, 5-slot chassis designed for remote, rugged environment operation

NAI designs [Data Acquisition Systems \(DAQ\)](#) around core COTS technology building blocks, offering our customers readily available, interoperable, field-proven systems (or subsystems) designed to withstand the rigors of harsh, SWaP-constrained environments. [The DAQ-35CPOG](#) is a pre-configured rugged system ideally suited to support a multitude of military/aerospace data acquisition applications that require “SBC-less” remote Gig-E command and control of high-density, multi-channel programmable ARINC 429/575; Dual-Redundant, Quad Channel MIL-STD-1553B; CANBus (CAN 2.0 A&B or J1939); A/D Conversion; RTD Measurement; RS-232/422/485 Serial Communications; Thermocouple Measurement; Discrete I/O; Differential Transceiver and Dual-Port Gig-E Ethernet.

The DAQ-35CPOG delivers an off-the-shelf, preconfigured solution that accelerates deployment of SWaP-optimized systems in rugged air, land and sea applications. Pairing the DAQ-35CPOG hardware with your application will accelerate your time to mission!



Features

- Meets or exceeds: MIL-STD-461F and MIL-STD-810G requirements
- Continuous Background Built-in-Test (BIT)
- < 10 lbs. typical
- COTS/NDI
- COSA[®] Architecture
- Conduction cooled SWaP
- 28 VDC power @ 75 W, typical

Architecture

With our exclusive, modular, interoperable [Configurable Open Systems Architecture™ \(COSA®\)](#), NAI's data acquisition systems seamlessly integrate with our intelligent [multifunction I/O boards](#), containing highest packaging density and greatest flexibility of any multifunction I/O modules in the industry, and can be deployed rapidly with no NRE.

Applications

With decades of experience in embedded rugged electronics, NAI's flexible, modular [Data Acquisition \(DAQ\)](#) systems are a perfect fit for a number of military/aerospace applications where compact, low-power systems are required, including:

- Flight Test Instrumentation
- Engine Power Assurance
- Vehicle Usage Monitoring
- Crew Controls
- Vehicle Health Monitoring

Continuous Background Built-In-Test (BIT)

BIT monitors the status of all I/O during normal operations and is totally transparent to the user. SBC resources are not consumed while executing BIT routines. This simplifies maintenance, assures operational readiness, and reduces lifecycle costs and keeps your system mission-ready.

Single-Source Efficiencies

Eliminate man-months of integration with a configured, field-proven system from NAI. Requirements review through to deployment is a seamless experience as all design, state-of-the-art manufacturing, assembly and test are performed— by one trusted source. All facilities are located in the U.S. and optimized for high-mix/low volume production runs and extended lifecycle support.

Software

All I/O and communications library Software Support Kits (SSKs) are supplied free of charge.

Target Environment

All products are designed to operate under extreme temperature, shock, vibration and EMI environments. NAI's systems are designed to meet or exceed MIL-STD-461F and MIL-STD-810G requirements.

**MIL-STD-461F requires proper shielded cables and system practices*

Specifications are subject to change without notice.

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Certified Small Business