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TECHNOLOGY GROUP

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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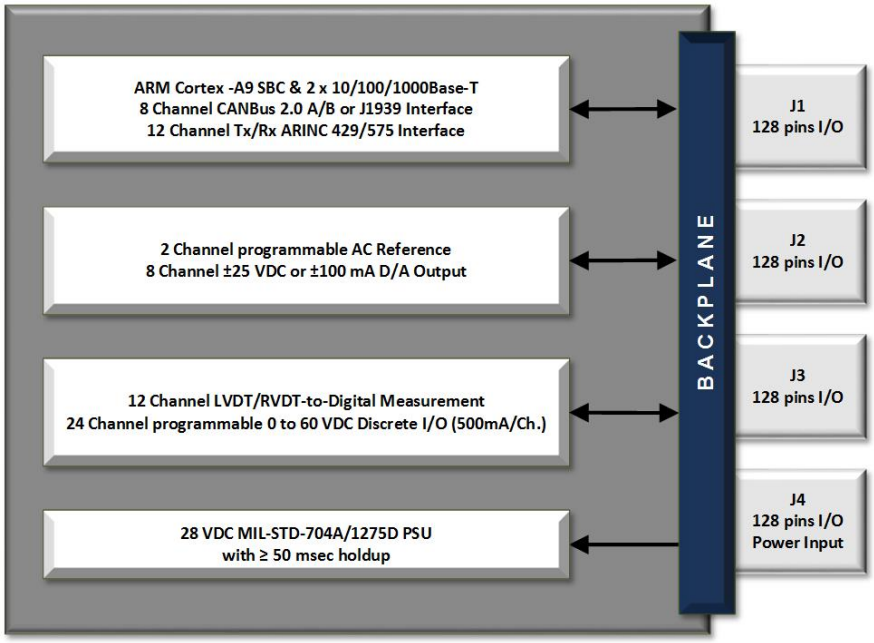
VMS-33CP0A – Vehicle Monitoring System

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

NAI designs Vehicle Management Systems (VMS) 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 VMS-33CP0A is a pre-configured, rugged system with a high-performance, low power ARM® Cortex®-A9 processor. It is ideally suited to support a multitude of military/aerospace applications that require high-density, multi-channel, programmable LVDT Measurement; Discrete I/O; D/A Conversion; AC Reference; CANBus (CAN 2.0 A&B or J1939); Differential Transceiver; ARINC 429/575 and Dual-Port Gig-E Ethernet.

The VMS-33CP0A delivers an off-the-shelf, preconfigured solution that accelerates deployment of SWaP-optimized systems in air, land and sea applications. Pairing the VMS-33CP0A hardware with your application will accelerate your time to mission!





Features

- Meets or exceeds: MIL-STD-461F and MIL-STD-810G requirements
- VxWorks®, Xilinx® PetaLinux
- Continuous Background Built-in-Test (BIT)
- < 10 lbs. typical
- COTS/NDI
- COSA® Architecture
- Conduction cooled SWaP
- 28 VDC power @ 45 W, typical

VMS-33CP0A
Vehicle Monitoring System

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

NAI's Vehicle Management Systems (VMS) perform with a high level of stability and accuracy on military vehicles operating in hostile environments, and are vital on today's battlefield. The VMS-33CP0A provides a controller/monitoring system interface to discrete, analog and digital data inputs, and can control local functions based on input data. The VMS-33CP0A provides system control and monitoring in a single package with Built-in-Test (BIT) capability and can perform many functions including:

- Engine control
- Electrical power distribution
- Flap control and monitoring
- Cabin or cockpit environmental control and monitoring
- Fuel system monitoring
- Crew alerting system

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

Software support includes VxWorks® and Xilinx® PetaLinux. 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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Made in the USA
Certified Small Business

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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