

MIL-STD-1553 Modules for Embedded Systems

Two new versions of MIL-STD-1553 bus modules are being made available to interface avionics and weapons subsystems to an embedded control system. Acromag's IP570 is an Industry Pack ANSI/VITA-4 card that plugs into VME, CompactPCI and PCI bus mezzanine carrier cards or high-performance single board computers. The company's IOS-570 models are designed for use within Acromag's I/O Server industrial PC, a small fanless box computer. Both 1553 bus modules offer the choice of one or two interface channels. A DDC Micro-ACE device controls the 1553 interface. Extended temperature models support -40° to 85°C operation.

All models feature a DDC Micro-ACE bus terminal that supports both MIL-STD-1553 revision B and MIL-STD-1760 transceivers, as well as the STANAG 3838 protocol. Users can choose from models with one or two complete dual-redundant interface channels. Each channel can be wired for either direct or transformer coupled operation and operates at data rates of up to 1 Mbit/s. The DDC Micro-ACE controller provides a flexible host-side interface that is compatible with Mini-ACE or ACE architectures and supports multiple configurations (bus controller, remote terminal, or bus monitor). Users get a highly autonomous bus controller with many powerful capabilities and options. Acromag offers several programmer support tools. A Windows development package provides API development software and Win32 DLL drivers, plus examples for C, Visual Basic, .Net and LabVIEW environments. Single quantity pricing starts at \$1,695.



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