

BMC Communications Corp.

PCI-UADI-UNIVERSAL AVIONICS INTERFACE

MIL-STD-1553 A/B ARINC 453/708

ARINC-429/575/561/571/572/etc. RS 232-422

THE WORLD OF AVIONICS COMMUNICATION IN YOUR HAND

PCI Universal Avionics Design Interface

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BMC Communications Corp. is pleased to introduce the first [PCI Universal Avionics Digital Interface \(PCI -UADI\)](#), a plug-and-run device. The device uses a powerful 16-bit RISC low-power microcontroller, which allows firmware programming in the field through a computer. The PCI -UADI supports a wide variety of communication protocols: MIL-STD-1553 dual redundant interface, ARINC 708/453, ARINC two-wire/six-wire protocols such as 429/575/571/572/581/582/615/etc, and RS-232/422.

It includes extensive C libraries, DLLs, Windows and Linux drivers. A variety of features include error injection-detection, sub-address selection, Major/Minor cycle frame, long loop test, 32-bit message time-tagging, triggers, extensive BC & RT link-list structures, automatic/manual RT Status Bit, Mode Code responses, advanced BC functionality, on-board Built-in-Test Bus, transformer & direct coupling, hardwired RT address. The units operates as BC, RT, MULTIPLE RTs (up to 15 RTs) or BM and concurrent mode BCRT, BCBM and RTBM. The PCI -CRAM-1553 Bus Monitor provides unparalleled error detection and monitoring of fully loaded buses. It is fully compatible with the temperature, humidity, and vibration standards of MIL-STD-810E and EMI MIL-STD-416.

Interface boards are also available for ESA, CompactPCI, PC104 and VME platforms.

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