

Aitech

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**C108 6U VME SBC**

Aitech's New C108 Rugged 6U VME SBC Offers New Legacy Applications 1.4 GHz Processing Capability; Advanced Bus Interfaces

Aitech Defense Systems Inc. has released the new high performance C108, the latest addition to Aitech's extensive C10x SBC series, for use in both new and legacy military embedded applications. For newer applications, the rugged 6U single-slot VME SBC offers up to 1.4 GHz of processing power.

For legacy applications, the board features pin-to-pin backplane and I/O compatibility with previous Aitech processor boards employing the PPC MPC74xx processor family allowing easy, cost-effective upgrades to newer technology.

As with all Aitech SBCs used in military embedded applications, including mission management computers, heads-up display controllers, radar and sonar processors, and advanced IED (Improvised Explosive Device) autonomous vehicle protection subsystems, the C108 provides extensive I/O capabilities. This exceptionally low power, high performance SBC reduces heat generation for increased reliability, while its pin compatibility reduces upgrade, O and M (Operating and Maintenance), and logistics expenses for Aitech's existing customers.

The C108 supports new and legacy systems via a host of diverse I/O interfaces noted in the bullets. In addition, a Discovery™ system and memory controller on the C108 work together to perform as both the processor's memory controller and as the high-speed crossbar bridge to the PCI bus.

Memory includes 1 GB of onboard, soldered, ECC-protected fast SDRAM, and other memory arrays such as 128 MB of Flash for user application storage, 32 MB of Boot Flash memory, and up to 4 GB of high-density Flash for mass data storage. Pricing for the C108 starts at \$6,640. Delivery is from stock.

**FEATURES**

- › Extensive range of I/O interfaces
- › New USB SSD assures no-to-low application software overhead, auto bad block management, and auto wear leveling
- › Gigabit Ethernet port
- › Two fast Ethernet ports
- › Two dual-redundant MIL-STD 1553B interfaces
- › Two USB ports; eight serial ports
- › 16 discrete I/O channels
- › Two PMC expansion slots
- › On-board optically isolated CAN Bus 2.0B
- › Discovery system and memory controller
- › Two independent PCI buses
- › 128 KB of NVRAM
- › Extensive firmware provided; BSPs available