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User Manual

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V469 *"Patriot"*

Ultra High Performance, Single Slot, Dual Redundant, Pentium® M VXS Server

Key Features:

True Dual Redundant Server with 100% "Share Nothing". Each Server with:

- True Dual Redundant Server with 100% “Share Nothing”. Each Server with:
- 2GHz Pentium® M processor with 2MB of L2 Cache (Dual core in Q2-06)
- Up to 8GB of ECC, RDDR-266 memory via upgradeable module
- 533 MHz Front Side Bus, with two independent PCI-X busses
- Dual Gigabit (Fibre or Copper) Ethernet ports to front/rear I/O panel
- Fibre Channel with 2Gbit full duplex operation
- 2MB of SRAM memory to buffer Fibre Channel data
- Ultra-low power consumption, as low as 80W (both sides)
- Dynamic speed stepping for lowest power possible in stand-by mode
- Boots from Fibre Channel, Network or IDE/USB devices
- Quad USB-2.0 ports and dual Com ports
- XVGA RGB Video for console work
- Optional up to 16GB Compact Flash for Boot/storage
- Optional dual PMC module carrier (2nd Slot)
- Supports VITA 41.3 VXS for Switched Backplane Topology
- 512KB BIOS Flash with Power-On-Self-Test (POST) functions
- Full Health monitoring for safe system operation
- Built In Test (BIT) and Extended BIT (EBIT)
- Front panel LEDs for POST code and Status display
- All major I/O is connected to front panel, no RTM is required
- Supports Windows®2000/XP, VxWorks®, Solaris®x86, QNX® and Linux®

Highlights

The V469 “Patriot" is a single slot (4HP) 6U VXS Single Board Computer (SBC) specifically designed to provide the ultimate server functionality in a VXS card cage. This ultra high performance, low power requirement server is true dual processor architecture, with each processor sharing absolutely NOTHING with the other processor, as if they were in two different VME slots. The two processors are linked together with the Gigabit Ethernet or may be linked via VITA 41.3 VXS, thus providing a massive server density unlike ANY other technology. To provide even more processing power at lower power, the new dual core processors will be used (Q2-06) to provide QUAD-processing capabilities.
This ultimate processing power per VME site and per watt makes the Patriot an ideal solution for systems requiring massive parallel processing for intensive floating point/integer calculations. No other Pentium® or PowerPC® based SBC can match the performance and the low power consumption of the V469 for Mil/Aero and server applications.
The V469 utilizes two of the new M-760 Pentium-M processors, each operating at 2.0GHz with 2MB of L2 Cache and 533MHz FSB. Each processor is 100% decoupled from the other processor and they do not share any functions, including power supplies and I/O. Each Pentium® processor has it own memory and I/O controllers and they communicate with each other over Gigabit Ethernet port or via VITA 41.3 VXS. The two sides (Side A and B) are 100% identical including the mechanicals, thus all the interconnect can be duplicated.

The V469 provides up to 8GB of 266MHz RDDR memory with ECC configured in 128-bit wide, compared to the standard 64-bit wide, DDR 200MHz of all other Pentium® M designs. This unique memory design of the Patriot supports the fastest DMA operations between the system memory and high-speed I/O devices. The onboard high-speed devices such as dual Gigabit Ethernet ports, Fibre Channel and the two PMC sites take full advantage of this added bandwidth and provide unmatched performance without any degradation when all I/O devices are used simultaneously.

Standard I/O functions of each side of Patriot included are: dual Gigabit Ethernet ports with Copper or Fibre interface, 2 Gbit, full duplex Fibre Channel with 2MB of SRAM buffer and Flash BIOS to support Boot capabilities, quad USB 2.0, dual Serial ports, XVGA Video, UDMA IDE interface. An optional I/O interface module allows one Compact Flash and one USB-2.0 device to be added to each side. This Compact Flash may be used to Boot the Operating System or to store user data while the USB device may support 802.11b/g wireless Ethernet or any other USB functions.

For additional I/O functions, each side is connected to a Special Application Module (SAM-IIITM). This open architecture, interface provides the equivalent of dual 100MHz, 64-bit PCI bus throughput. User may connect to this bus directly via FPGA or may utilize existing silicon to convert to dual PCI-X buses for user I/O functions. GMS plans for several I/O functions for this SAM-IIITM interface, including dual PMC module. Consult factory for the latest offering.

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