I-BUS
Infini-Availability™

Continuon™ 8U/CHP

PICMG 2.16 Gigabit Ethernet Blade Server

Five-Nines technology

ISO 9001 · ISO9001 · NITA · CE

Ordering Information

Continuon™ 8U/CHP
Standard Configuration includes :
• C0818D 8U System Platform
• Two IBC2801 or two IBC2802 Dual PIII SBC & Rear I/O
• Dual Low Power Intel® 800MHz PIII Processors
• Two PICMG 2.16 Switch Fabric boards
• 256MB ECC SDRAM
• Additional IBC2802 Computing Blades

Power Subsystem Options
PSU-AC
Four 200W N+1 AC power supplies
PSU-DC
Four 200W N+1 -48VDC power supplies
PIM-AC
Redundant AC isolated input modules
PIM-DC
Redundant DC isolated input modules
PIM-UPS
AC input module and an embedded UPS kit

Control & Monitoring Options
IBC-2501
Chassis Management Controller, IPMI v.1.0 compliant Module.

Memory & Drive Options
From128MB to 1 GB DDR SDRAM
From 18 GB to 36GB SCA drives

IBC 2703-RIO
Rear I/O transition module for 280X with 1.8" hard drive socket

IBC 16010 - *Storage Mezzanine Board for 280x with 1.8" hard drive socket and CompactFlash socket*

CompactFlash Options
32, 64, 128 or 256 MB CompactFlash
or
1GB Microdrive

Specifications

Chassis
8U Height
• 14" x 17.1" x 12" (hwd) 356 x 434 x 304 mm

Up to sixteen IBC 280x server blades

IBC2801 System Master SBC :
• Single or dual Low Power Pentium III Processors at up to 933 MHz
• Micron® Copperhead™/Coppertail™ Chipset
• Up to 2 GB of DDR DRAM at 266 MHz
• 512 Kbytes Integrated Full speed L2 cache
• Award BIOS. Watchdog Timer
• 32-bit PMC Expansion
• CompactPCI Bus Master
• Dual 10/100BaseTx Ethernet Intel® 82559ER
• Dual 1000BaseT Ethernet, Intel 82546EB
• PICMG® 2.16 compatible pin-outs w/ RIO
• 69030 PCI Video with 4MB Memory
• Dual ATA 100 IDE Interface
• Optional CompactFlash or Microdrive
• Single PC Compatible USB port
• Floppy drive interface, up to 2 drives
• Dual 16C550 Serial Ports
• Bi-directional Parallel Port with EPP and ECP
• PS/2 Mouse Port and PS/2 Keyboard Interface
• 1-Slot (4HP) x 6U *CompactPCI*® Compliant
• *CompactPCI*® Compliant Rear I/O Board

Peripheral Processors
IBC 2802, dual Low power Pentium III SBC
• Dual 10/100BaseTx Ethernet Intel® 82559ER
• Dual 1000BaseT Ethernet, Intel 82546EB
• 69030 AGP Video with 4MB Memory
• Optional CompactFlash or Microdrive
• Up to 2 GB of DDR DRAM at 266 MHz

Two PICMG 2.16 Compliant Fabric Switch Boards
• Carrier-grade 24 port 10/100 + 2 ports Gb switches
• Wire-speed layer 2/layer 3 (IP) switching

Backplane
• Integrated 8 + 8-slot CPCI segmented backplane
• System slots #1 and #9
• 14 full hot-swap I/O slots
• 7 + 7-slot segmented H.110 backplane
• Fully PICMG 2.16 PSB Compliant

HA middleware (optional) : IP Load Balancing
• Win2K Advanced Server
• RedHat Linux AS

Fail-Safe OPTICOOL™ Cooling
• Patented push-mix-pull cooling technology
• 8 + 2 fan, hot-swap cooling array in air intake
• Patented air flow mixing and directing tray
• 3 individually hot-swap blowers
• Optional blower and fan speed control with I-Bus CMC

DC Power Subsystem
• 4 Hot-swap redundant -48VDC power supplies
• N+1 Redundant (N=3) 200W supplies
• Dual feed power inputs
• Input Voltage: -36 to 72 VDC auto-ranging
• Output Power: +3.3V@30A, +5V@25A, +12V@5.5A, -12V@0.5A (each supply)
• Combined power of +5 and +3.3V not to exceed 35A total per supply

Operating Environment
• Temperature: 0 to 40° C
• Humidity: 5% to 85% @40° C, (non-condensing)
• Shock: 10g @11mS
• Vibration: 0.25G @2-100Hz, 1.5g@100-500Hz

Standards Compliance
• PICMG 2.0 R 3.0, PICMG 2.1 R 2.0, PICMG 2.5 R 1.0, PICMG 2.9 R1.0, PICMG 2.10 R 1.0, PICMG 2.11 R 1.0, PICMG 2.16 R 1.0
• ESD: CE
• EMI: CE, FCC, UL/CUL
• Safety: UL/CUL, CE, CB
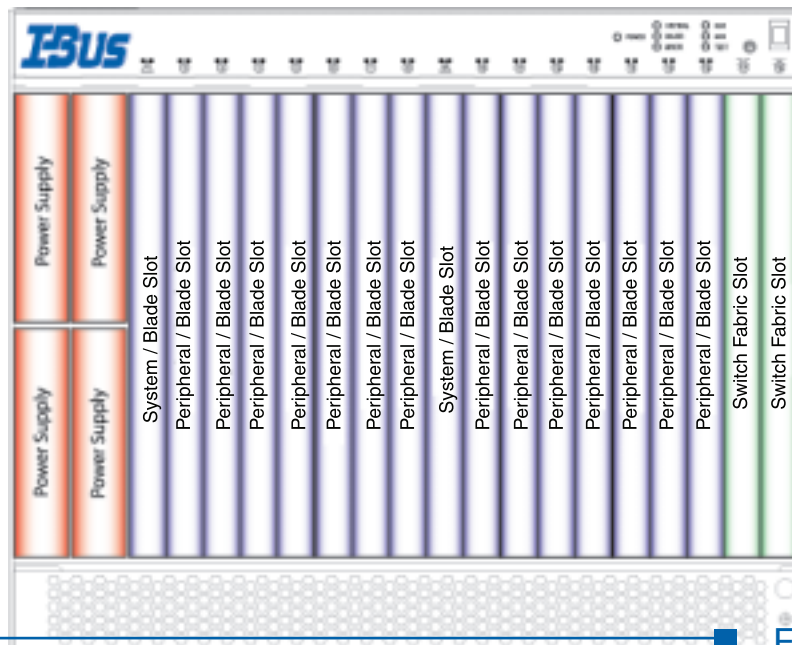• NEBS

PICMG

PICMG 2.16

Continuon™ 8U/CHP

PICMG 2.16 Gigabit Ethernet Blade Server

The state-of-the-art **Continuon™ 8U/CHP** CompactPCI PSB platform is the highest density Packet Switched Backplane solution on the market today, and the first to employ I-Bus patented Fail-Safe OptiCool™ technology. In 8U of space all critical modules are easily accessible and fully hot-swap capable. It supports full I/O card hot-swap to PICMG 2.1 R2.0, dual hot-swap power input modules and N+1 redundant hot-swap power supplies.

In 8U the most critical component is the cooling. I-Bus continues to lead the CompactPCI market with the patented Fail-Safe OptiCool™ method of push-mix-pull cooling. Fail-Safe Opticool incorporates a unique lower hot-swap fan array that takes advantage of the axial direction of the fans to most efficiently pressurize the air at the bottom of the chassis. The unique mixing tray can be tuned to mix the intake air, redirect the air upward and distribute the air to where it is needed most, even in the event of a single fan failure. To direct the air through the cards, drives and power supplies, three individually hot-swappable blowers pull the low pressure air upward and direct it toward the rear of the chassis. Optimization of cooling, noise and blower life expectancy is achieved with the addition of the optional I-Bus Chassis Management Controller (CMC), which provides independent speed control for the individual blowers and the fan array. The CMC is added in its dediocated slot at the rear of the chassis.

With all of these high-availability features, the **Continuon™ 8U/CHP** excels in applications requiring small size, optimal cooling, high density and the highest levels of reliability, serviceability and maintainability, ensuring the greatest level of application availability. Additional features include a 16 + 2 slot CPCI/H.110 backplane, full rear I/O module support, front to back airflow and NEBS compliance.

The Continuon™ 8U/CHP is the Best of Class solution on the market achieving the "Five Nines" of system availability.

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