

# **IBC 2802**

Dual Low Power Pentium<sup>®</sup> III Peripheral Master or Satellite CPU



## PICMG 2.16 Compliant

#### **Ordering Information**

**Specifications** 

## IBC 2802-850

Single Pentium III-M, 850 MHz w/dual 10/100 Ethernet, Ultra 160 SCSI and SVGA IBC 2802-D850

Dual Pentium III-M, 850 MHz w/dual 10/100 Ethernet, Ultra 160 SCSI and SVGA

#### IBC 2802-933

Single Pentium III-M, 933 MHz w/dual 10/100 Ethernet, Ultra 160 SCSI and SVGA

#### IBC 2802-D933

Dual Pentium III-M, 933 MHz w/dual 10/100 Ethernet, Ultra 160 SCSI and SVGA

#### **Memory Options**

DSDM-128MB 128MB DDR SDRAM DSDM-256MB 256MB DDR SDRAM DSDM-512MB 512MB DDR SDRAM DSDM-1GB 1 GB DDR SDRAM DSDM-2GB Call

#### IBC 2703-RIO

Rear I/O transition module for 280X with 1.8" hard drive socket

**Hard Drive Options** HDD-5GB 5GB 1.8" IDE HDD **HDD-10GB** 10GB 1.8" IDE HDD **HDD-20GB** 20GB 1.8" IDE HDD

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

#### **Hard Drive Options**

HDD-5GB 5GB 1.8" IDE HDD 10GB 1.8" IDE HDD HDD-10GB HDD-20GB 20GB 1.8" IDE HDD

#### CompactFlash Options

CF-32MB 32MB CompactFlash CF-64MB 64MB CompactFlash CF-128MB 128MB CompactFlash CF-256MB 256MB CompactFlash MD-1GB 1GB Microdrive

- Single or dual Low Power Pentium III Processors at up to 933 MHz
- Supports possible future Intel® speed upgrades

512 Kbytes Integrated Full speed L2 cache

Micron® Copperhead™/Coppertail™

## Dynamic RAM

Up to 2 GB of Double Data Rate (DDR) synchronous DRAM at 266 MHz

#### 32-bit PCI Mezzanine Card (PMC) Expansion

32-bit/33 MHz PMC with 2703 rear-panel I/O

#### Optional Storage Mezzanine Board

- 1.8" IDE HDD up to 20GB
- CompactFlash up to 256MB or 1GB Microdrive

- Award BIOS
- Customized BIOS available

## Watchdog Timer

Software controlled with reset capability

#### **Ethernet Interfaces**

- Dual 10/100BaseTx Ethernet, Intel 82559ER
- Dual 1000BaseT Ethernet, Intel 82546EB
- PICMG® 2.16 compatible pin-outs w/ 2703 RIO

#### Video Interface

- 69030 PCI Video with 4MB Memory
- 1280 x 1024 x True Color non-interlaced

#### Enhanced IDE (Dual)

- Dual IDE Interface up to 4 drives
- ATA 100 with synchronous transfers up to 100MB/s

#### System Monitoring

- On-board monitoring of voltages, temperatures
- Optional PICMG 2.9 Compliant BMC/PM
- Optional SNMP Agent Software Available

#### USB

- One PC compatible USB port
- Additional USB port on 2703 RIO rear panel

#### Standard I/O

- Floppy drive interface, up to 2 drives
- Dual 16C550 Serial Ports
- Bi-directional Parallel Port with EPP and ECP
- PS/2 Mouse Port
- PS/2 Keyboard Interface

#### Mechanicals

- 1-Slot (4HP) x 6U CompactPCI® Compliant
- CompactPCI® Compliant 2703 Rear I/O Board

#### Operating Environment

- Temperature: 0° +50° C
- Storage: -40° +85° C

#### Power Requirements (Typical)

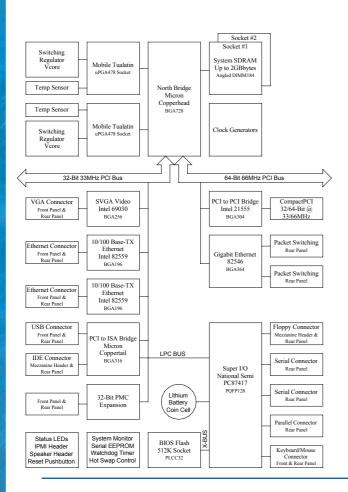
- 3.5A (single CPU) or 5A (dual CPU) at +5.0 volts
- 2A (single CPU) or 3A (dual CPU) at +3.3 Volts
- 24Watts (single CPU) or 34 Watts (dual CPU)



# **IBC 2802**

# Dual Low Power Pentium<sup>®</sup> *III* Peripheral Master or Satellite CPU Board

The IBC 2802 is fully CPSB PICMG 2.16 compatible to support Gigabit Ethernet switched fabric backplane architectures. With the additional compatibility of PICMG 2.1 full hot-swap and PICMG 2.9 full IPMI system management, the IBC 2802 is a powerful, scalable, open architecture building block in high-reliability and high-availability CompactPCI-based server blade systems from I-Bus. The IBC 2802 supports Dual Low Power Intel Pentium III processors, operating at up to and beyond 933MHz. Program and data storage needs are met with support for up to 2 Gbytes of DDR SDRAM as well as 256+ Mbytes of CompactFlash or a 1 Gbyte IBM Microdrive, and an IDE hard drive up to 20GB on board. Additional IDE hard drive may be installed on the IBC 2703 rear I/O transition module to provide total disk storage capacity up to 40 GB per blade. Additional features include dual 1000BaseT Ethernet, dual 10/100 BaseTX Ethernet, 32-bit PMC expansion with rear I/O and on-board AGP Video. Also supported is the full set of standard PC peripherals including Ultra ATA/100, 1.44 Mbyte floppy, USB, RS-232 serial ports, parallel port, mouse and keyboard.



#### Peripheral Map

Peripheral	Front Panel	Rear Panel	Comment
SVGA Video	V	1	Jumper selectable
Ethernet 0	√	1	Jumper selectable
Ethernet 1	√	1	Jumper selectable
PMC	√	1	On rear I/O board as internal 68-pin connector
Gigabit Ethernet		1	
Ultra IDE 0		1	Also available on-board via 50-pin header
Ultra IDE 1		1	On rear I/O board as internal header connector
Floppy		1	Also available on-board via 50-pin header
USB 0	1		
USB 1		1	
Serial Port 0		1	
Serial Port 1		√	
Printer Port		√	On rear I/O board as internal header connector
Mouse	1	√	Shared with keyboard on single PS/2 connector
Keyboard	1	1	Shared with mouse on single PS/2 connector



#### Worldwide Headquarters

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