

IBC-2501

Chassis Management Controller



Ordering Information

IBC-2501
Chassis Management Controller with IPMI
firmware

CMC-SNMP-SW
SNMP Agent software

Specificatio

Features

- 6U **CompactPCI**® rear I/O form factor
- Hot-plug 2mm metric connector
- Fully PICMG 2.9 R1.0 IPMI compliant
- System controller independent
- Audible alarm
- Battery backup
- Quad I²C on-board interfaces
- Dual RS-232 serial ports
- Up to 8 temperature sensors (8-bit)
- 7 Voltage sensors
- 6 User digital I/O (3 in, 3 out)
- 3 Relay outputs
- 4 LED display

I²C Interfaces

- 1 routed to IPMB0 on backplane
- 1 routed to temp sensors
- 2 available via on-board headers

Serial Interfaces

- Two rear panel DB-9 connectors
- Two internal 5-pin headers
- Control and communication from host SBCs

Voltage Sensors

- Monitors +3.3V, +5V, +12V, -12V
- Monitors up to 2 -48V inputs
- On-board battery (6V) monitor
- 10-bit resolution

Relay Contacts

- Rear panel DB-15 connector
- .25A, 175V relay contacts
- Critical, major and minor relays

Optional Battery Backup

- Optional on-board 6V backup battery
- 10 minute CMC back-up

Digital I/O

- Rear panel female DB-9
- 3 TTL user inputs
- 3 TTL user outputs

LED Display/Push Buttons

- Critical alarm red LED
- Major alarm orange LED
- Minor alarm yellow LED
- CMC reset push-button
- Audible alarm cut-off (ACO) push-button
- LED test push-button

Software

- On-board firmware supports sensor threshold monitoring alarm and IPMI command interface
- SNMP host software agents available

General Specifications

- Dimensions: 6U x 4HP x 80mm
- Power Requirements: +12V, 400mA
- Operating Temperature: 0 to 55°C
- Storage Temperature: -40 to +85°C
- Design Compliance: UL, CSA, FCC, CE, NEBS



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Chassis Management Controller

The **IBC-2501** is a PICMG 2.9 compliant chassis management controller ideally for communication and networking application demanding continuous availability. It supports sensor threshold monitoring, three-level alarming, and an IPMI 1.5 compliant command interface. It monitors chassis temperature (up to 8 sensors), backplane voltages (such as +12V, -12V, +5V, +3.3V, two input line voltages, and the on-board battery 6VDC), and health of individual power supply module. In addition, three user TTL digital inputs are available via the DB-9 male rear panel connector.

The alarming function provides timely notification when a pre-specified alarm threshold is crossed. Three severity levels of alarming are supported; minor, major, and critical. Three NEBS compliant relays, each contact is rated .25A, 175V are accessible through the DB-15 rear panel connector. Critical, non-recoverable, alarm triggers a red LED, audible alarm and the critical relay. Likewise, major alarms are indicated by and orange LED and minor alarms are indicated by a yellow LE. Alarms may also be set via the IPMI command interface by the host SBC where customer-specific system monitor application runs. Off-site notification is achieved by the SNMP agent software running on a host CPU board that utilize the host Ethernet network to communicate with a remote SNMP management application.

Other features include ACO, CMC board reset and LED test push-buttons accessible on the face plate of the CMC board. The Audible Alarm Cut Off (ACO) push button allows user to suppress or acknowledge a currently active alarm(s). The ACO LED is turned on when ACO is in effect. The LED push-button initiates an LED test sequence to verify operation of all alarm LEDs.

For Further Information



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