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 55ºC
- Storage Temperature: -40 to +85ºC
- 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 real 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 an yellow LE. Alarms may also be set via the IPMI command interface by the host SBC where customer-specific system monitior 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 appplication.

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

Worldwide Headquarters

I-Bus Corporation
3350 Scott Blvd, Building 54
Santa Clara, 95054
United States
Phone : +1 (408) 450-7880
Fax : +1 (408) 450-7881
Toll Free: 877-777-IBUS
Email: contact.us@ibus.com

European Headquarters

I-Bus UK Ltd
Unit 6, Chichester Business Park
City Fields Way, Tangmere
West Sussex, PO20 2LB, UK
Tel: +44 (0) 1243 756300
Fax: +44 (0) 1243 756301
Email: contact.uk@ibus.com

France, Italy

I-Bus France
B.P 45 Valbonne
06901 Sophia Antipolis CEDEX
France
Tel: +33 (0) 493 004 360
Fax: +33 (0) 493 004 369
Email: contact.fr@ibus.com