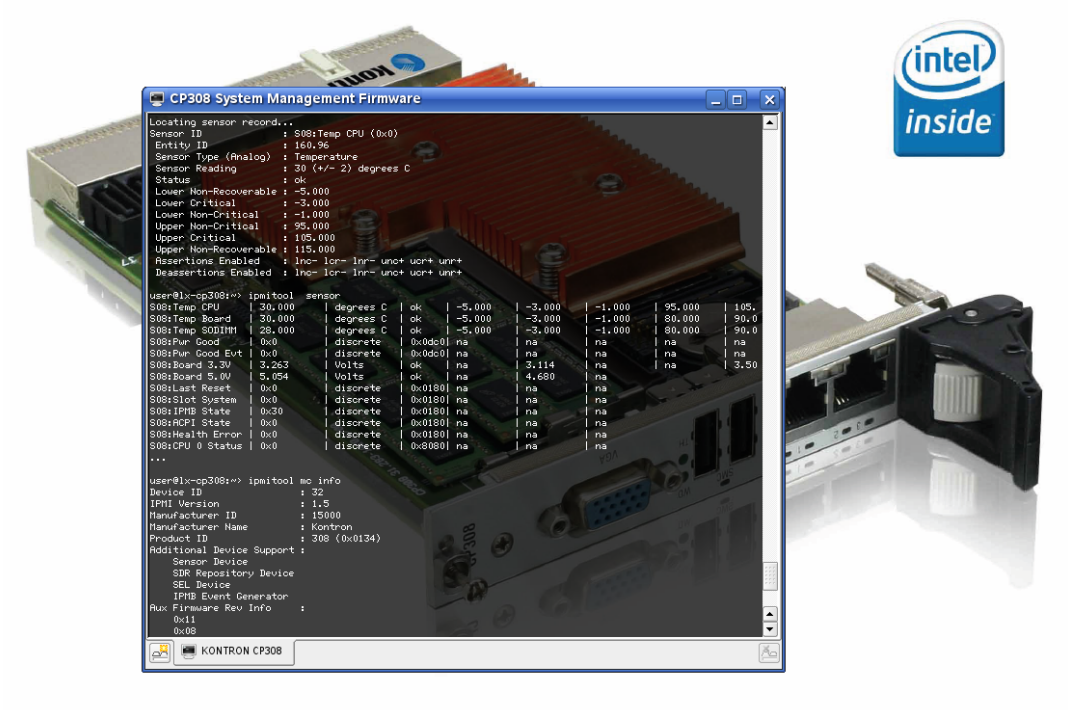
» CP308 «



System Management Controller Firmware for the CP308 Board

» Based on IPMI technology

» Monitoring of voltages, temperatures, board states, etc.

» Local event log storing sensor events

» Supports standard interfaces: KCS and IPMB

System Management Controller Firmware for CP308
Product Overview

To support system management functionality, the CP308 is provided with a 32-bit system management controller (SMC). This makes the reading of temperatures and voltage values as well as controlling and supervising of fans possible. Moreover, the functioning of additional CompactPCI cards installed in the system can be monitored and controlled via the IPMB bus. To achieve a solid base the implemented Firmware is based on the well-established IPMI technology.

System Management Controller Firmware

The CP308 System Management Controller implements a local Keyboard Controller Style (KCS) interface with interrupt support for communication with the System Management Software (SMS) and the uEFI BIOS. Other Management Controllers in the rack (on installed CompactPCI cards) are accessible via the IPMB bus on the J1 Compact PCI connector.

The System Management Controller provides access to various board sensors that permit the monitoring of:

» system power voltages

» processor, memory and board temperature

» various processor and system states (power good, board resets, POST code, boot errors, ...)

All sensors are monitored and Sensor Events are generated if the event sensor values are out-of-range. Generated sensor events are stored in the local System Event Log (SEL).

Key Features

System Management based on	IPMI specification 1.5, revision 1.1 PICMG 2.9 CompactPCI System Management specification
Accessibility / Interoperability	KCS interface with interrupt support Single port IPMB channel from/to backplane Out of band monitoring using IPMB interface permits access to SMC regardless of board's CPU state Interoperable with other IPMI solutions
Sensor and Events	Sensor thresholds fully configurable Sensor names prefixed with identification of owner (based on slot number) SEL functionality, storing local sensor events
uEFI BIOS interaction / others	uEFI BIOS fail over control, for automatic EFI firmware bank switching OEM commands for uEFI BIOS FW bank selection and boot order override OS shutdown support LED indication System Health (and others)
Configuration / Update	Configurable via uEFI BIOS shell Free downloadable FW Update CD
Documentation	SMC Firmware User Guide in PDF format.

CORPORATE OFFICES

Europe, Middle East & Africa
Oskar-von-Miller-Str. 1
85386 Eching/Munich
Germany
Tel.: +49 (0)8165/ 77 777
Fax: +49 (0)8165/ 77 279
info@kontron.com

North America
14118 Stowe Drive
Poway, CA 92064-7147
USA
Tel.: +1 888 294 4558
Fax: +1 858 677 0898
info@us.kontron.com

Asia Pacific
17 Building,Block #1,ABP.
188 Southern West 4th Ring Road
Beijing 100070, P.R.China
Tel.: + 86 10 63751188
Fax: + 86 10 83682438
info@kontron.cn

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