

» IPMI-Firmware for the B3C0 family «

Kontron IPMI-Firmware for the B3CO family

- » Designed for CPCI environment
- » Monitoring of voltages, temperatures, board state, geographic addresses
- » Hot swap and FRU data handling
- » Interfaces: KCS, IPMB and IOL
- » Supports CP6003

#Konton IPMI-Firmware for the B30G family# 08082011WAN All data is for information purposes conty and not guaranteed for legal purposes. Subject to change without notice. Information in this datasheet has been carefully checked and is All data is for information purposes conty and not guaranteed for legal purposes. Subject to change without notice. Information in this datasheet that subject is subjective owners.

Kontron IPMI-Firmware for the B3CO family

The Kontron B3CO IPMI Firmware monitors the temperature sensors, the board voltages, and the power supply status. It manages the hot swap operations and programs the geographic address. The firmware runs as BMC to manage the whole system or as SMC to manage the Board and to communicate with a BMC. As BMC it manages the sensor data record repository A system event log is stored in the NV RAM of the IPMI-Controller.

The firmware communicates via KCS with the system Software, via the IPMBs with other boards in the CompactPCI system

and via IOL with other computers. It provides access to various sensors on the board on in the system. E.g. voltage sensors, Processor, chipset and board temperatures, various processors and system states (power good, board resets, POST codes,). The IPMI-Firmware supports SOL to be able to communicate with the BIOS/uEFI and OS command line interface over Network.

The firmware can be updated in the field. The controller uses two firmware banks to store the firmware redundant. This allows a manual or automatic roll-back to the backup firmware bank.

Supported Features Firmware designed for CPCI environments: » CompactPCI System Management Specification PICMG 2.9 R1.0 **Board Management** » IPMI Specification v1.5 / v2.0 » IPMI Platform Management FRU Information Storage Definition v1.0 Interfaces Keyboard Controller Style (KCS) interface to communicate with the system software, uEFI or the OS. The KCS interface supports polling or interrupt mode Local IPMB-0 or IPMB-1 (single or dual ported) to communicate with other CompactPCI boards via the backplane IPMI over LAN (IOL) and Serial over LAN (SOL) to communicate via Network with other computers IPMI Functionality Sensor Device functionality: » As BMC the firmware manages the complete Sensor Device Record repository of the System. » Sensor thresholds fully configurable » The sensor name includes the Slot in which the board is plugged, if it is configured as SMC. If configured as BMC the string "BMC:" prefixes the sensor name. Complete IPMI watchdog functionality Complete FRU Inventory functionality **CPCI Functionality** Hot-Swap support Graceful shutdown support XMC presence support LED indication for System Health and KCS activity Out-of-Service LED and IPMB activity Front panel LEDs Hot-Swap LED Firmware Upgrade Firmware can be updated in the field via KCS, IPMB and IOL Two Firmware banks to store the firmware image redundant in the FLASH Roll-back to the backup FLASH manually or automatically possible. Downloading new Firmware doesn't break MMC or CPU activities. Bootable Firmware CDROM image available for download IPMI-Firmware in HPM.1 format available uEFI fail over control, to switch to the "RecoveryFlash" Firmware bank in case of error uEFI interaction OEM commands to select the uEFI Firmware bank Boot device selection Configurable with the uEFI **Documentation** IPMI Firmware User Manual in PDF format with a list of the available sensors and supported commands NOTE: The feature list above represents a summary of functionalities supported by the platform IPMI-Firmware. Depending on the used Platform Board a subset of those features is available. For more information about implemented hardware features refer to the Platform Board Hardware Manual.

Ordering Information

Please contact your local sales office for ordering information.

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