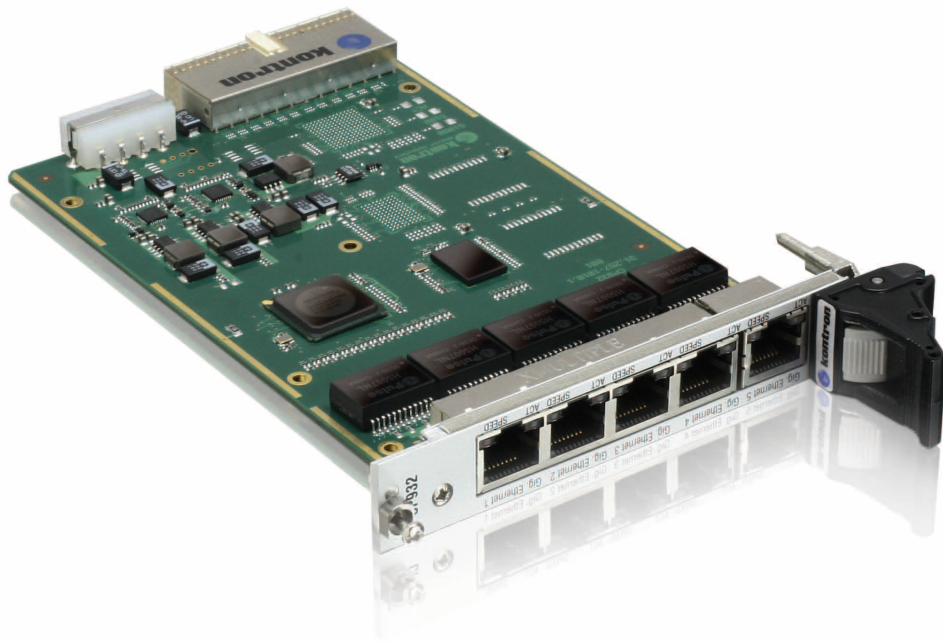If it's embedded, it 's Kontron

» CP932 «

Gigabit Ethernet Switch with integrated NIC

» **Gigabit**

Five Gigabit Ethernet Ports plus integrated NIC

» **Versatile**

Versatile design for use in CompactPCI, VME, Standard PC or customer specific solutions

» **Robust**

Robust design suited for harsh enviroments

Designed for operation in industrial automation applications, the CP932 is a rugged 6-port Gigabit Ethernet Switch with an integrated NIC.

The CP932 supports 10/100/1000Base-T Ethernet on five ports with RJ45 connectors; each with two status LED´s. The sixth port is optional and connected through a Gigabit Ethernet NIC to the Master CPU of the CompactPCI Backplane segment.

On the CP932 the Broadcom BCM5388 Gigabit Ethernet Switch is used. This device is a highly integrated solution. It combines all the functions of a high-speed switch system, including packet buffer, media access controllers, address management, and a nonblocking switch fabric. It complies with IEEE 802.3, 802.3u, 802.3ab, and 802.3x specifications, including the MAC control, pause frame and auto negotiation subsections, providing compatibility with all industry-standard Ethernet, Fast Ethernet and Gigabit Ethernet devices. The media access controllers on the CP932 also support Jumbo Frames which are typically used for high-performance connections to servers because they offer a smaller percentage of overhead on the link for more efficiency.

Technical Information

General

Number of Ports	5x 10/100/1000Base-T plus NIC over CPCI
Transfer rate	10/100/1000 Mbit/s with auto-negotiation
Uplink	MDI/MDIX on all ports (auto-crossover)
Power	5 Volt / 7 Watt

Controller

Switch controller	Broadcom BCM5388 (BCM5385 for NIC-less version)
SRAM on chip	128 KByte for frame buffering
MAC addresses	integrated look-up engine with 8K MAC addresses
VLAN	VLAN 4K 802.1Q or port-based supported
Ethernet controller	Intel® 82541PI
PCI-bus	32 bit / 33 or 66 MHz, Universal VIO (5 Volt tolerant)
Software	Windows 2000, Windows XP, Windows XP embedded, Linux, VxWorks (other OS's may be possible, please contact us for information)

Common

Front panel connector	5x RJ45 for CAT5 cable
Front panel LED's	Link/Activity and Speed
Power connector	4-pin ATX power connector (5 Volt only), J1 of CompactPCI (5 Volt only)
Dimensions	100 mm x 160 mm (3U card size)
Temperature Ranges	0° C to + 60° C (standard) -40° C to +85° C (extended) -55° C to +100° C (storage)
Climatic Humidity	non-condensing 93% at 40°C acc. to IEC 60068-2-78
Weight	170 g
MTBF	246.649 h acc. to MIL-HDBK-217 FN2

Ordering Information

Article	Order-No.	Description
CP932	29508	6-port Gigabit Ethernet Switch with 5x RJ45 on the front panel and one integrated NIC
CP932-E2	31281	6-port Gigabit Ethernet Switch with 5x RJ45 on the front panel and one integrated NIC, Ext. temp. -40 to +85°C
CP932	29510	5-port Gigabit Ethernet Switch with 5x RJ45 on the front panel (without NIC)
CP932-6U	31070	5-port Gigabit Ethernet Switch with 5x RJ45 on the front panel (without NIC) with 6U front panel
KIT-CP932 [1]	30090	Windows 2000, Windows XP Board Support Package, CP932 User's Manual
WXPE-BSP-CP932 [1]	1022-2327	Windows XP embedded Board Support Package, CP932 User's Manual
LIN-DRV-CP932 [1]	31033	Linux Driver CP932, CP932 User's Manual
VXW-DRV-CP932	30178	VxWorks 6.4 Driver CP932, CP932 User's Manual

(1) Free of charge downloadable from the Internet

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