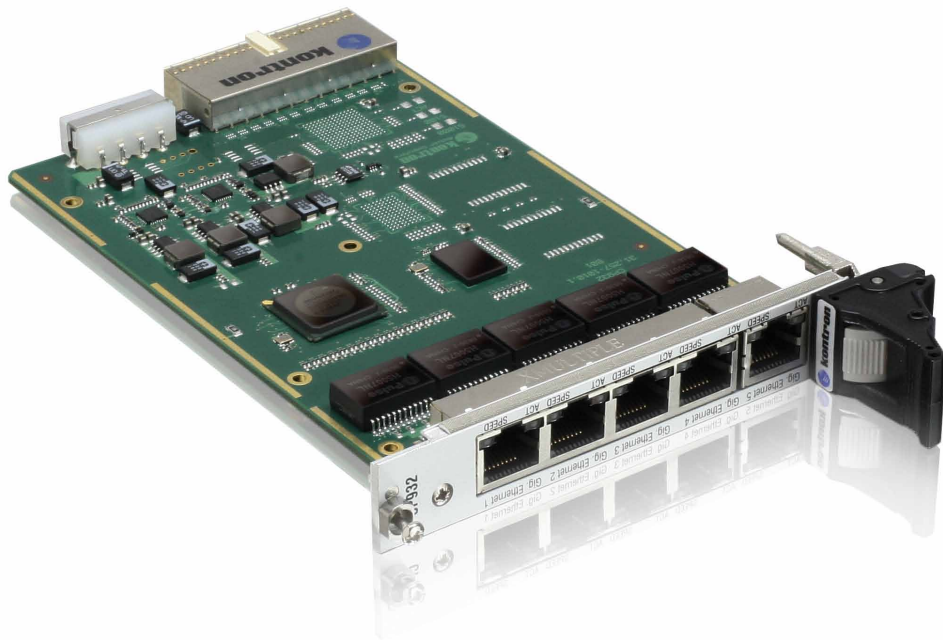


» CP932 «



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 environments

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, Linux, VxWorks
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-217F2

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 Driver Kit, 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 V6.4 Driver CP932, CP932 User's Manual

(1) KIT-CP932 free of charge downloadable from the Internet

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