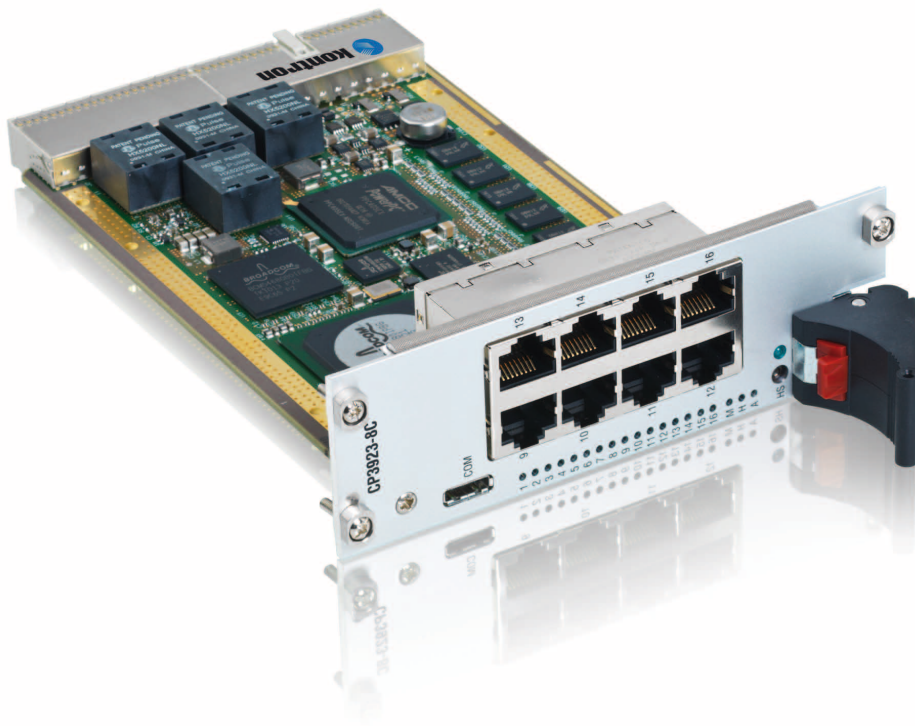


# » CP3923 «



## 16-port Layer2/3 3U CompactPCI Switch

- » Fully managed layer 2 and 3 switching and routing
- » Leading edge technology based on BCM56226
- » Versatile design with RJ45 or M12-D front options

# CP3923

## 16-Port Layer2/3 3U CompactPCI Switch

Welcome the latest member of the 3U CompactPCI switch family – the CP3923.

The CP3923 is a fully managed layer 2/3 Gigabit Ethernet switch offering IPv4/IPv6\* routing and full management capabilities. It supports a powerful set of CLI, Telnet, Web and SNMP management interfaces to configure the entire set of protocols and parameters including Layer 2 and Layer 3 (IPv4/IPv6\*) protocols, Multicasting, QoS and Security. On top of that, the CP3923 maximizes the reliability of rugged COTS applications by supporting Intelligent Platform Management (IPMI) and hot swap capabilities.

### » Unique Versatility

Eight GbE ports to the rear and up to eight GbE ports to the front ensure highest connectivity capabilities. The CP3923 is available with three different front I/O versions:

Either with eight GbE ports via RJ45 (CP3923-8C) or for mobile- and transportation-oriented applications with four (CP3923-4M) or eight (CP3923-8M) Fast Ethernet ports via M12-D connectors.

To provide access to the eight GbE ports routed to the rear, a special RTM (Rear Transition Module) is available.

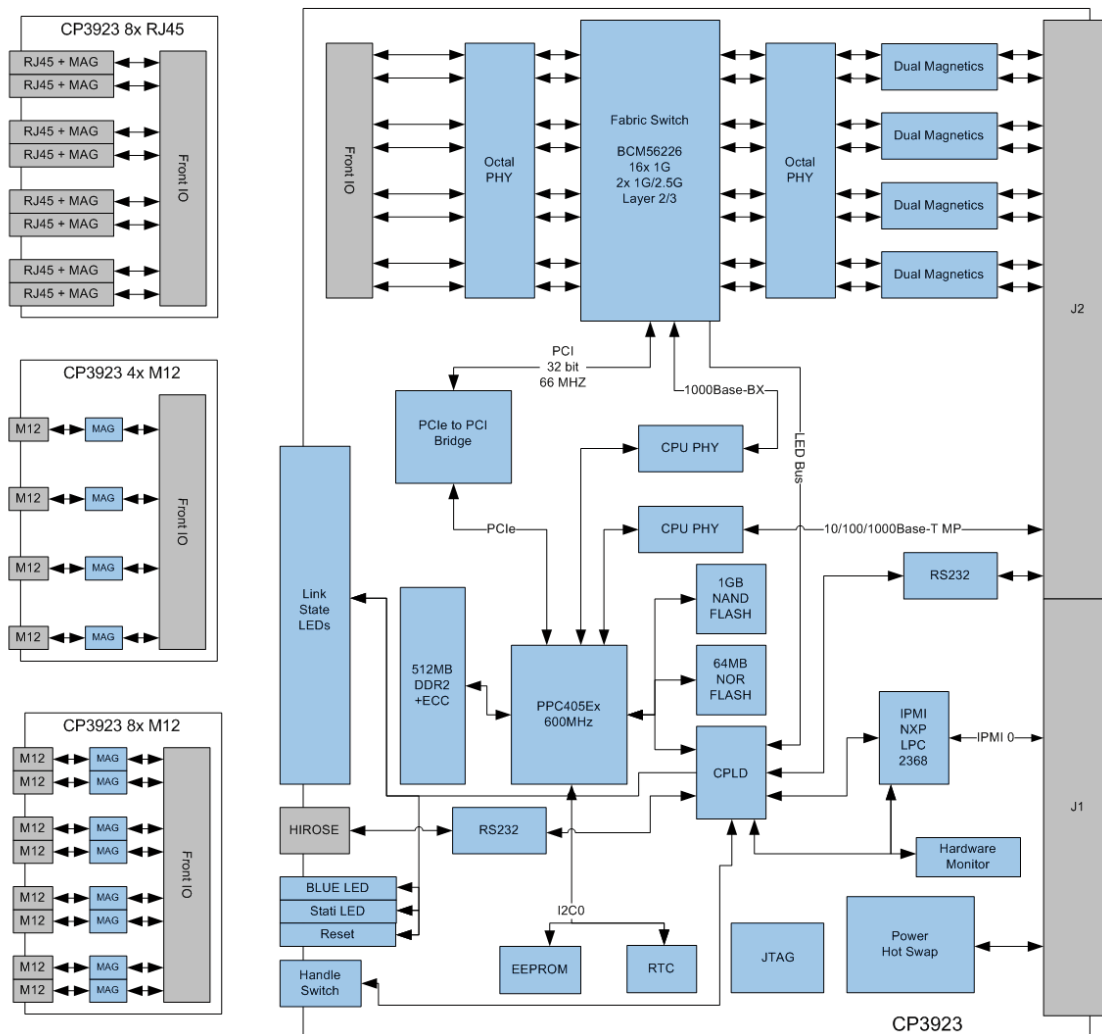
### » Robust and Reliable

The careful design and selection of high temperature resistant components together with the elaborate heat sink construction ensures high product reliability. Designed with soldered components the CP3923 is able to handle the toughest environmental conditions. With respect to the transportation market the CP3923 is fully EN50155-compliant.

### » Long-Term Availability

Based on chosen components from embedded roadmaps, the CP3923 ensures long-term availability and therefore eliminates the risk of unplanned design changes and unexpected application modification.

\*IPv6 support optional



## Technical Information

<b>Controller and Switch</b>	Broadcom BCM56226 Ethernet switch PowerPC® 405EX, 32-bit, RISC processor core operating up to 600 MHz NXP LPC2368 32-bit microcontroller, for IPMI 512MB DDR2 RAM 200 MHz 1GB NAND Flash for file storage
<b>Front Panel Interfaces</b>	
Common	1x RS232 management port via Hirose connector Reset button Status LEDs, 1x per port Hot swap LED
CP3923-8C	8x 10/100/1000Base-T ports via RJ45
CP3923-4M	4x 10/100Base-T Ports via M12
CP3923-8M	8x 10/100Base-T Ports via M12
<b>Rear I/O via J2</b>	The CP3923 supports: » Eight Gigabit Ethernet ports » One 10/100/1000Base-T management port » One RS232 management port
<b>CompactPCI Bus Interface</b>	PICMG 2.0 Rev. 3.0 compatible, universal 5V and 3.3V PCI signalling voltage supported
<b>Hot Swap</b>	The board supports full hot swap capability as required by PICMG 2.1 R2.0. It can be removed or inserted in a powered slot. Please refer to the PICMG 2.1 R2.0 specification for additional details.
<b>Compliance</b>	CompactPCI® Core Specification PICMG 2.0 Rev. 3.0 CompactPCI® Hot Swap Specification PICMG 2.1 R2.0 CompactPCI® System Management Specification PICMG® 2.9 R1.0 Intelligent Platform Management Interface Specification v1.5 IEEE 802.3, 2000 ANSI/Vita 47-2005  Designed to meet or exceed: » Safety: UL 60950-1, CSA 22.2 No 60950-1, EN60950-1 » EMI/EMC: EN 55022 / EN 55024, EN 50081-1 / EN 61000-6-2 » EN50155 (only CP3923-4M and CP3923-8M)
<b>Software</b>	
Management	Management via SNMP, Telnet, CLI » In-band » Out-of-band via Ethernet or RS232 IPMI v1.5 Reliable software, field upgradable Dual boot images with roll-back capabilities Advanced management monitoring features
<b>Switching and Routing</b>	Ethernet Bridging: » Static and dynamic link aggregation, Classic, rapid and multiple spanning tree algorithms, Quality Of Service, Full Duplex operation and flow control, Layer 2 multicast services, VLAN support, IGMP and MLP snooping, Access Control Lists IP Routing:(*) » IPv4 Forwarding, ARP, ICMP, static routing, OSPF and RIP routing, Virtual router redundancy protocol (VRRP), ECMP Equal Cost Multipath routing Multicast: » IP Multicasting, IGMPv2 /v3, PIM-DM/PM, DVMRP, MLD v1/v2 Services: » SNMP client, DHCP server, Event Management, POST, SNMP, Support for multiple configurations, TFTP server, Power on and diagnostic tests  (*)IPv6 support optional
<b>General</b>	
Dimensions	100 x 160mm, 3U
Weight	CP3923-8C: 420g CP3923-4M: 410g CP3923-8M: 500g
MTBF	CP3923-8C: 235,864h acc. Telcordia Issue 1, Method I Case 3, Ground Benign, controlled @40°C CP3923-8M: 232,087h acc. Telcordia Issue 1, Method I Case 3, Ground Benign, controlled @40°C
<b>Power Consumption</b>	typ. 20 W
<b>Environmental</b>	
Operating Temp.	-40°C to +85°C
Storage Temp.	-50°C to +105°C
Climatic Humidity	93% RH at 40°C, non-condensing (acc. to IEC 60068-2-78)

## Ordering Information

Product	Description
<b>Switch</b>	
<b>CP3923-8C</b>	3U, 8HP, 8x GbE RJ45, 8x GbE Rear
<b>CP3923-4M</b>	3U, 8HP, 4x FE M12, 8x GbE Rear
<b>CP3923-8M</b>	3U, 12HP, 8x FE M12, 8x GbE Rear
<b>Rear Transistion Module</b>	
<b>CP-RI03-923-8C</b>	8HP rear transition module, 8x GbE RJ45, RS232 and GbE management port

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