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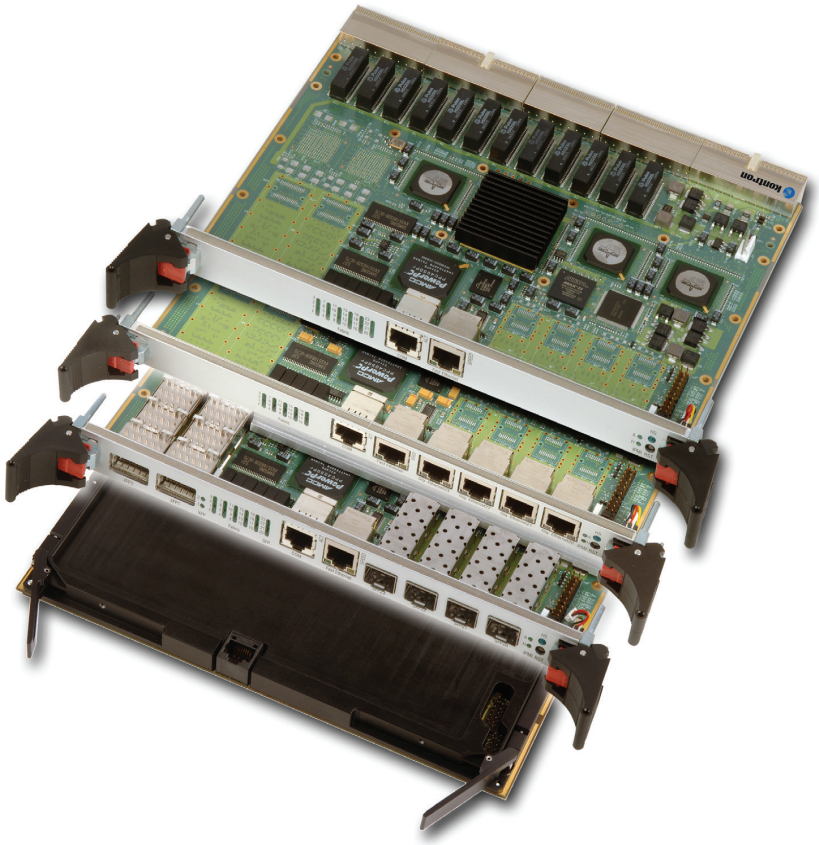
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kontron

» CP6923 «



24 Port non-blocking Layer 2 & 3
PICMG 2.16 managed Gigabit Ethernet Switch

» State-of-the-art technology, future ready

» Non-blocking layer 2 and 3 switching and routing

» 24 Gigabit Ethernet ports plus two 10 GbE XFP uplinks

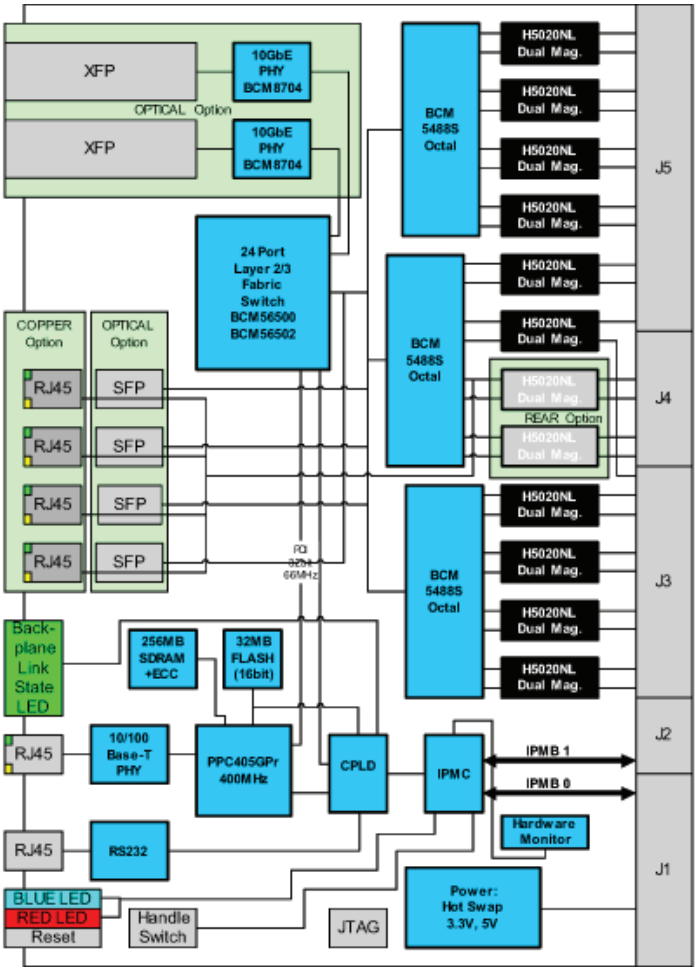
» Versatile design, adapted to your requirements

» Ruggedized for harsh environment

CP6923

24 Port non-blocking Layer 2 & 3 PICMG 2.16 managed Gigabit Ethernet Switch

The Kontron CP6923 provides managed built-in switching capacity for CompactPCI installations at an unsurpassed price-performance ratio by implementing the latest developments in switching technology.
It applies to VoIP systems such as Call Servers, Media Gateways and Trunking Gateways in wired and wireless networks, as well as VoIP systems in enterprise networks with high demands on performance. A boost in switching capacity allows to match rising transaction load and traffic load in VoIP installations.
The CP6923 is a 6U hot-swappable CPCI switch with 24 GbE ports and two high capacity uplinks (10GbE). It supports all relevant standards in carrier grade L2 and L3 switching and routing, including VLANs and QoS (Diffser). It represents the latest member of the CPCI product family for communication networks by Kontron and comes in three standard flavors, all with 20 or more Gigabit Ethernet ports to the rear and a serial and LAN console connection to the front panel.
The rugged versions CP6923-R-R2-E2 and CP6923-R-R3-E2 fulfill the temperature, shock and vibration requirements for harsh environment. Both operate from -40°C to +85°C. The forced air cooled R2 board withstands shock & vibration according to the VITA 47's EAC3 specification. The conduction cooled R3 switch fulfills the VITA 47's ECC4 specifications.



Technical Information

Compliancy	CompactPCI Core Specification PICMG 2.0 Rev. 3.0 CompactPCI Hot Swap Specification PICMG 2.1 R2.0 CompactPCI System Management PICMG 2.9 R1.0 CompactPCI Packet Switching Backplane PICMG 2.16 R1.0 VNE64x Packet Switching Backplane VITA 31.1
Controller and Switch	Broadcom BCM5650x Ethernet switch PowerPC® 405, 32-bit, RISC processor core operating up to 400 MHz, synchronous SDRAM interface
Interfaces on Standard Boards	
Common	1x 10/100Base-T management port on RJ45 1x RS232 management port on RJ45 20x 10/100/1000 Base-T link ports on RTM Reset switch Status LEDs, one per port
CP6923-C	4x 10/100/1000Base-T link ports on RJ45
CP6923-O	4x 10/100/1000Base-X link ports on SFP 2x 10GBase-R uplink ports on XFP
CP6923-R	4x additional 10/100/1000Base-T RTM ports
Interfaces on Rugged Versions	
CP6923-R-R2	1x 10/100Base-T management port on RJ45 1x RS232 management port on RJ45 Reset switch Status LEDs, one per port 24x 10/100/1000Base-T link ports on RTM
CP6923-R-R3:	1x Ethernet management port on RJ45 24x 10/100/1000Base-T link ports on RTM
Management and Protocols	Management via SNMP, Telnet, CLI - In-band - Out of band via Ethernet or RS232 IPMI version 1.5 Reliable software, field upgradable Dual boot images with roll-back capabilities Advanced management monitoring features Ethernet/Bridging protocols include - Link aggration (802.3ad) - VLANs (802.1Q) - Spanning tree (802.1D, 802.1w) - Flow control (802.3x) - GVRP, GMRP Comprehensive Multicast and IGMP snooping feature set Enhanced Link aggregation hashing features Packet memory configuration options
General	
Power Cons.	35 Watts (typ.)
Dimensions	215 mm x 160, 6U
Op. Humidity	0% to 92% (non-condensing)
Weight	< 800g
MTBF	198,216h @ 30°C / 86F (Bellcore Issue 6)
CP6923	IEC 60068-2-6, IEC 60068-2-27, IEC 61131-2 0°C to +55°C, forced air cooling required
CP6923-R-R2	R1 + VITA 47, class V1/EAC3, normal and extended -40°C to +85°C, forced air cooling required
CP6923-R-R3	VITA 47, class ECC4, MIL-STD-810 Method 514 Proc1, MIL-STD-810 Method 516 Proc1, extended -40°C to +85°C, conduction cooling required Higher shock and vibration levels can be achieved when installed in a ruggedized system.

Ordering Information

Article	Description
Layer 2/3 management, non blocking	
CP6923-C	R1 copper version with 20, Gigabit Ethernet ports to the rear and four RJ45 ports to the front panel
CP6923-O	R1 optical version with 20, Gigabit Ethernet ports to the rear; four SFP cage connectors and two 10Gb XFP cage connectors to the front panel
CP6923-R	R1 rear version with 24, Gigabit Ethernet ports to the rear
CP6923-R-R2-E2	R2 rear version with 24, Gigabit Ethernet ports to the rear
CP6923-R-R3-E2	R3 rear version with 24, Gigabit Ethernet ports to the rear
Layer 2 management, non blocking	
CP6923-C-V	R1 copper version with 20, Gigabit Ethernet ports to the rear and four RJ45 ports to the front panel; L2 management only
Rear Transition Modules	
CP-RIO6-923	6U, 4HP, rear transition module for PICMG 2.16 switch, 12 ports (ports 12 to 23), RJ45, RS232 on RJ45
CP-RIO6-923	6U, 8HP, rear transition module for PICMG 2.16 switch, 24 ports (ports 1 to 24), RJ45, RS232 on RJ45
	Other Modules and Conformal Coating on request











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