RES2404-PTP-POE

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28 Port 1G/10G High-End Rugged Ethernet Switch with POE

▶ Powerful 19" 1U fully managed non blocking L2/L3 switch

▶ Up to 24x 1G RJ45 ports plus 4x 10G SFP+ ports

▶ Wide temperature range, high shock an vibration robustness

▶ For demanding applications precision time protocol and power over ethernet

POSSIBILITIES START HERE

kontron

S&T Group

RES2404-PTP
High End Performance in 19 Inch Rack Format

The Rugged Ethernet Switch RES extends Kontron's existing Ethernet switch portfolio (ATCA, AMC, CompactPCI, VPX, etc.) by the requirements of standalone switches for harsh industrial and governmental applications. Using highest integration of Ethernet switch silicon the RES2404-PTP is specifically designed for working reliably under harsh environmental conditions.

The RES is a cost effective manageable Ethernet switch solution offering more capabilities than just Gigabit Ethernet. It is available in 2 versions:

▶ **RES2404-PTP:** 24x Gigabit Ethernet copper interfaces, supporting 10/100/1000BASE-T, 4x 1/10 Gigabit Ethernet SFP+ ports

▶ **RES2404-PTP-POE:** features of RES2404-PTP, additional 24 copper ports with Power over Ethernet

KEY FEATURES

▶ Fully managed Layer 2 / 3 non blocking Ethernet Switch, IPv6 support

▶ 24 Ports 10/100/1000Base-T RJ45

▶ 4x 10GBase-X SFP+ for direct attach copper or fiber

▶ Precision Time Protocol support for realtime applications

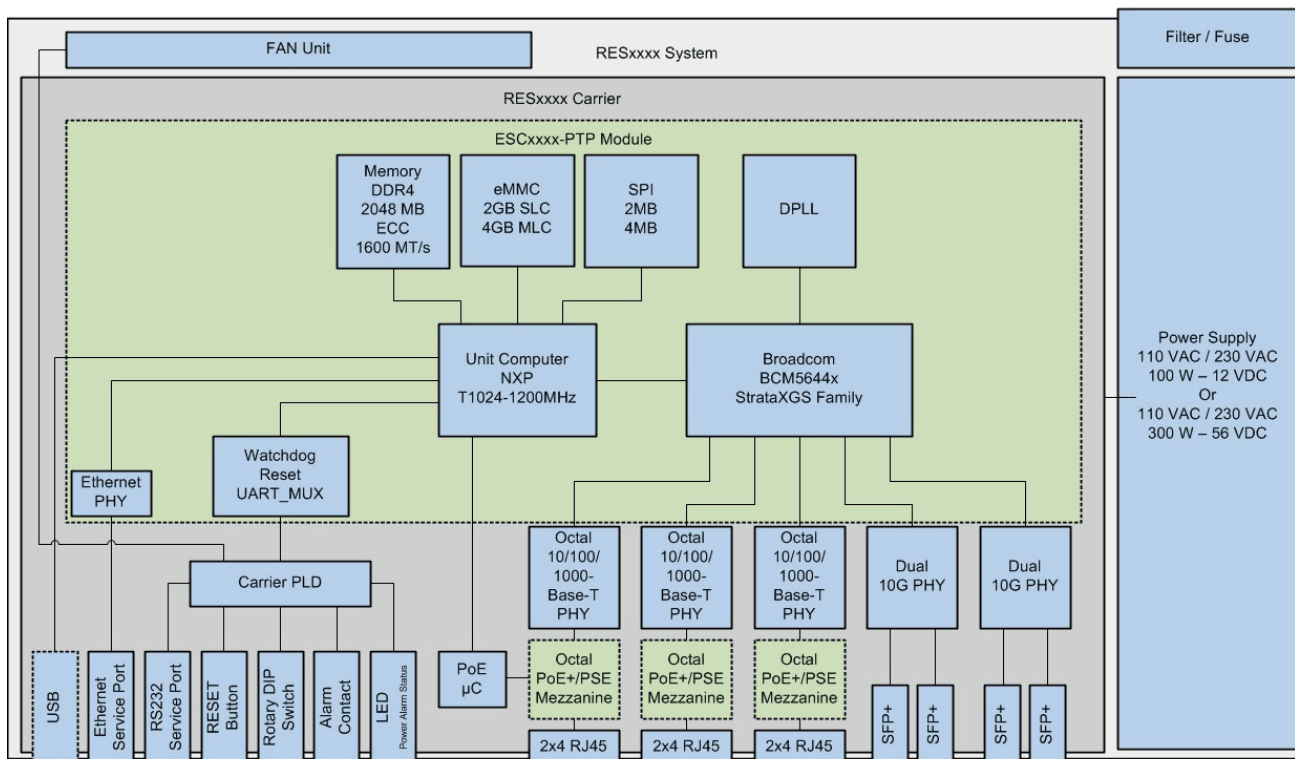▶ Power over Ethernet with up to 150 W in total, 30 W max singleport

▶ DIP switches for configuration management

▶ SNMP, command line and web management interface

▶ 1U, 19 inch housing

▶ Power supply for 110/230 VAC

▶ Wide temperature range: –20 °C to +50 °C

▶ Designed to meet industrial, naval and military norms

Reliability

The robust mechanical design features including wide temperature range, electronics and power supplies sets the foundation for systems which require high availability and low total cost of ownership. Built-In test capabilities enable effective switch maintenance.

Management

The RES2400/2404 can be monitored via remote SNMP. A comprehensive command line and web interface provides easy management and remote configuration by either serial or network interface. Support for comprehensive Ethernet switching/forwarding features, VLANs, Quality of Service and IPv4/IPv6 routing and Multicast, make it an ideal switch for diverse applications requesting high reliability and availability.

▶ TECHNICAL INFORMATION

INTERFACES	10 GIGABIT ETHERNET	4x 10GBase-X SFP+ transceiver cages, configurable for 1GBase-X operation using SFP optical transceivers or direct attach copper
	1 GIGABIT ETHERNET	24x RJ45 ports providing 10/100/1000Base-T modes of operation Power and reset Switch Serial and Ethernet management ports Status LEDs
SWITCH CONTROLLER		Broadcom 10G/1G Ethernet Switch with up to 170Gb/s throughput PowerPC switch controller

MANAGEMENT		2x DIP switches for user configuration
		Layer 2/3 Management via SNMP
		Command Line (Telnet, SSH), web management console
		In-band - Out of band via Ethernet or RS232
		
		Power On Self Test, Dual boot images, Field upgradable software
		
		DHCP server, relay and Boot media support
		SNTP Client, diagnostic, multiple confi guration support
		Alarm contacts, freely programmable
		
		Ethernet/Bridging protocols include:
		- Link aggregation (802.3ad)
		- VLANs (802.1Q)
		- QoS (IEEE 802.1p)
		- Spanning tree (802.1D, 802.1w)
		- Flow control (802.3x)
		- GARP/GVRP, GMRP
		
		IPv4/IPv6 routing features:
		- ARP, ICMP, OSPF, RIP, VRRP, DVMRP
		
		Enhanced Features are:
		- IEEE1588v2 support (Precision Time Protocol)
		  • MAC/Phy timestamping
		  • single step PTP
		- Egress ACLs, IP ACL support, DiffServ
		- Auto VoIP
		- IGMP snooping & proxy support
		- Startup confi guration confi gurable
		- Watchdog
		- Cable test

OPTIONS		PoE with 150 W max; 30 W per port max.
GENERAL	POWER	110/230 V, 45 W typ., RES2404-PTP-PoE max 200 W (typ, if max PoE power provided)
	DIMENSIONS	19 inch, 1U Chassis 445 x 45 x 205 mm (WxHxD)
	WEIGHT	2.5 kg
	MTBF	RES2404-AC-PTP: 86386h MIL 30 °C; RES2404-AC-PTP-POE: 99249h MIL 30 °C
	TEMPERATURE RANGE	-20 °C to +50 °C (non PoE); -20 °C to +55 °C (PoE version)
	HUMIDITY	93 % RH at 40 °C, non condensing (acc. to IEC 60068-2-78)
	SHOCK VIBRATION	15 G, 11 ms 10 to 300 Hz, 1 G
COMPLIANCY	SHOCK / VIBRATION / ENVIRONMENT	IEC 60068-2-1, IEC 60068-2-2 IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-29, IEC 60068-2-78
	EMC	EN 55022, EN 55024 EN 61000-4-2/-3/-4/-5/-6 /-11
	SAFETY	EN 60950-1, UL60950-1

ORDERING INFORMATION

ARTICLE	DESCRIPTION
RES2404-AC-PTP	28 port Rugged Ethernet Switch - Fully managed L2/L3 19 inch, 1U Rack Switch - 4x 10G SFP+, 24x 1G RJ45, PTP - 110/230 V AC, 45 W typ. - -20 °C to 50 °C operating temperature
RES2404-AC-PTP-POE	28 port Rugged Ethernet Switch - Fully managed L2/L3 19 inch, 1U Rack Switch - 4x 10G SFP+, 24x 1G RJ45 - 110/230 V AC, 45 W typ; 200 W max.if 150 W PoE provided - -20 °C to 55 °C operating temperature
OPTIONS	versions with reduced number of uplink ports and PoE ports available on project request

Due to our technological know-how and existing building blocks, we also realize your custom specific switch design regarding your special requirements.

▶ Global Headquarters

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