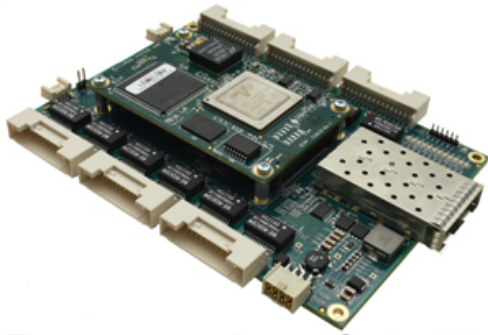


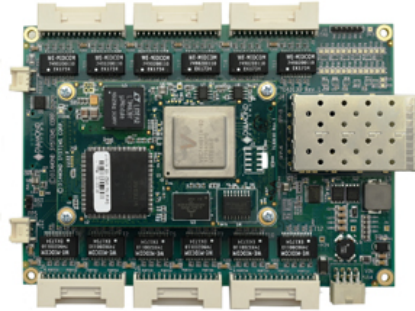


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EPS-24G2X angled



EPS-24G2X

FEATURES

- ◆ 24 10/100/1000Mbps Gigabit Ethernet ports
- ◆ 2 10G SFI ports for use with SFP+ 10G fiber/copper sockets
- ◆ Integrated 500 MHz MIPS CPU for control of all switch functions
- ◆ Embedded management website provides access to all switch features
- ◆ Support for Status LEDs on carrier board
- ◆ IEEE802.1Q switch with 4K VLANs and 32K MAC table entries
- ◆ Independent and shared VLAN learning (IVL, SVL)
- ◆ Jumbo frame support
- ◆ Push/pop/translate up to three VLAN tags on ingress and egress
- ◆ Policing with storm control and MC/BC protection
- ◆ RSTP and MSTP support
- ◆ TCAM-based classification and VCAP-II security
- ◆ 1PPS input option for IEEE1588 timing support (requires advanced software package)
- ◆ Status LEDs for all ports
- ◆ Latching connectors and thicker PCB for superior shock/vibration resistance
- ◆ +5 to 34VDC input
- ◆ 3.5 inch form factor, 4.00"H x 5.75"W / 102 x 146mm
- ◆ -40°C to +85°C (-40°F to +185°F) operating temperature

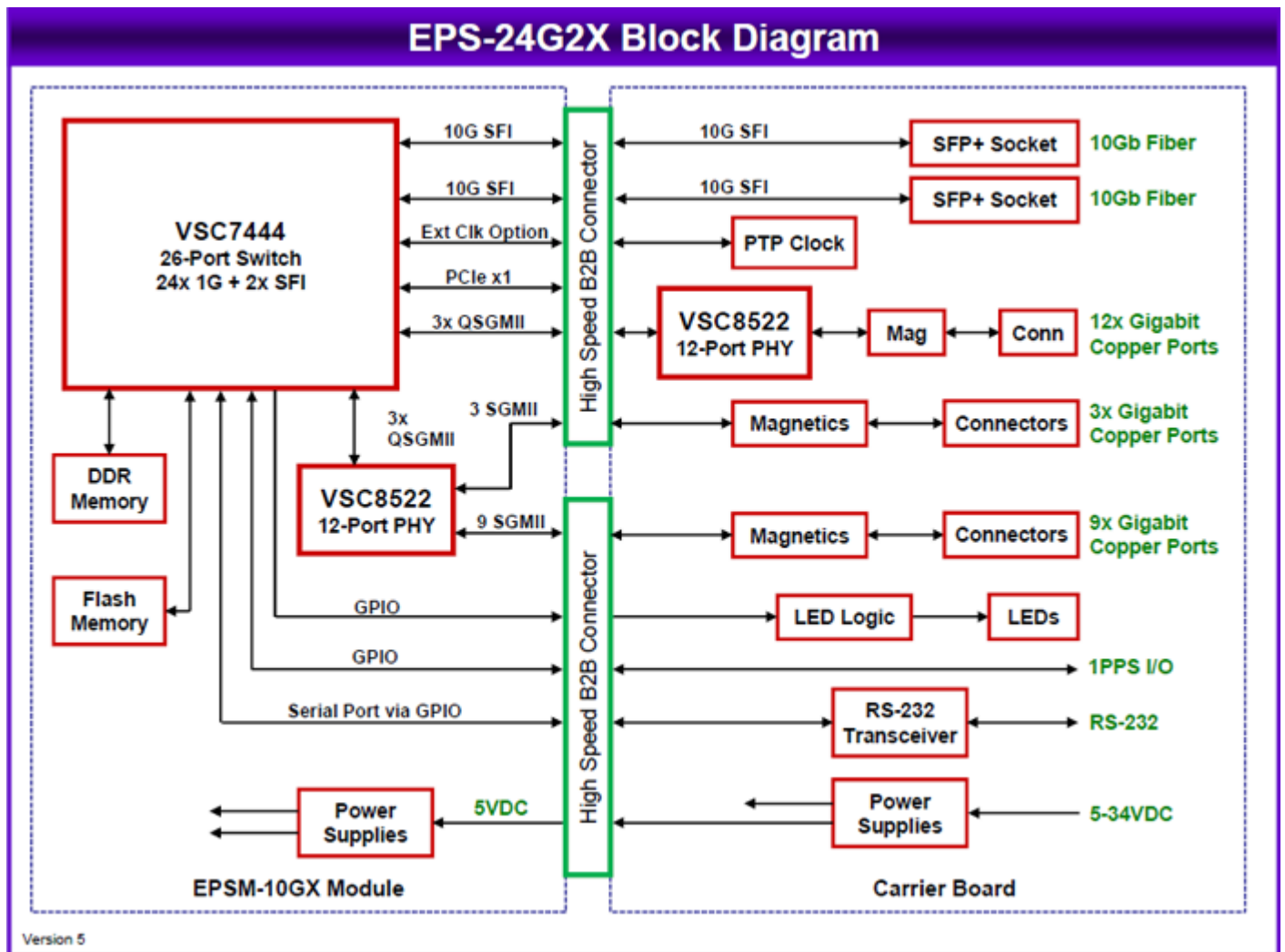
◆ **Description**

The EPS-24G2X is a managed Layer 2+ Ethernet switch based on Diamond's EPSM-10GX switch module. The switch implements all features of the **EPSM-10GX**, including 24 10/100/1000Mbps copper ports and 2 10Gbps SFI ports accessed via SFP+ sockets. The EPS-24G2X is designed in the industry-standard "3.5 inch" form factor. The standard cooling method is via a low-profile heat sink.

The standard Layer 2+ software embedded in the module provides a comprehensive set of Ethernet switch features suitable for a wide range of industrial applications. All features are manageable via a GUI web interface accessible over any port, as well as with a command language accessed via a built-in RS-232 port. A more advanced software package offering Layer 3 routing performance, as well as IEEE1588 PTP protocol and 1PPS I/O signals, is available upon request. These features are fully supported in the EPSM-10GX hardware and EPS-24G2X product.

EPS-24G2X is designed to meet the challenges of vehicle environments with its -40/+85oC operating temperature range and its MIL-STD-202G shock/vibration resistance. Latching connectors are used for all I/O for superior resistance to shock and vibration over the traditional low-cost RJ-45 style connectors. The 50% thicker PCB also aids in resistance to vibration. A wide-range input power supply with built-in transient protection provides compatibility with a range of industrial and vehicle power supplies.

◆ **Block Diagram**



◆ CK-EPS24G2X-01: Cable kit for EPS-24G2X

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◆ Specifications

Ethernet Switch	24-port Layer 2/3 switch Built-in 500MHz MIPS 24KEC microcontroller for configuration and management
Number of Ports	24 10/100/1000Mbps Ethernet ports with non-blocking wire-speed performance
On-board Memory	4Mb packet memory Shared memory buffer with per-port & CoS memory management
MEF	Hierarchical MEF compliant policing & scheduling; MEF E-Lane, E-Line, and E-Tree services
Frame buffer	Jumbo frame support at all speeds
Network Management	SNMP v1/v2c/v3 Web GUI Command Line Interface (CLI)
VLAN	IEEE 802.1Q VLAN switch with 32K MACs and 4K VLANs Push/pop up to three VLAN tags Independent & shared VLAN learning (IVL, SVL)
Multicast	IPv4/IPv6 uni & multicast group support
Remarking	Dual leaky bucket policers with remarking and statistic
Classifier	8 priorities and 8 CoS queues per port with strict or deficit-weighted round robin scheduling Shaping/policing per queue and per port
Storm Control Classifier	Policing with storm control and MC/BC protection 8 priorities and 8 CoS queues per port with strict or deficit-weighted round robin scheduling Shaping/policing per queue and per port
Storm Control Classifier	Policing with storm control and MC/BC protection
Link Aggregation	EEE 802.3ad
RSTP	Rapid spanning tree protocol (IEEE 802.1W) and MTSP
MIBs	Support for WebStax
Power Management	ActiPHY and PerfectReach power management; VeriPHY cable diagnostics
Serial Port	1 RS-232 port for host interface
Indicator Lights	24 status LEDs, two per port; 2 general purpose
Standalone Cable	Standalone network switch, or in combination with a host computer
General	
Power Input	5VDC
Power consumption	TBD
Form factor	COM Express Mini, Type 10
Operating temp	-40°C to +85°C (-40°F to +185°F)
Weight	237 grams (8.35 oz.)
MTBF	TBD
RoHS	Compliant



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