

EPS-9600 Managed Layer 3 Ethernet Switch with 1Gbps + 10Gbps Ports and TSN



FEATURES

Rugged Ethernet switch using latest technology

8 1Gbps copper Ethernet ports

2 10Gbps capable SFP+ sockets with copper and fiber support

Daughterboard connector supports expansion up to 28 total 1G, 2.5G, and 10G ports

88Gbps maximum total bandwidth (with daughterboard)

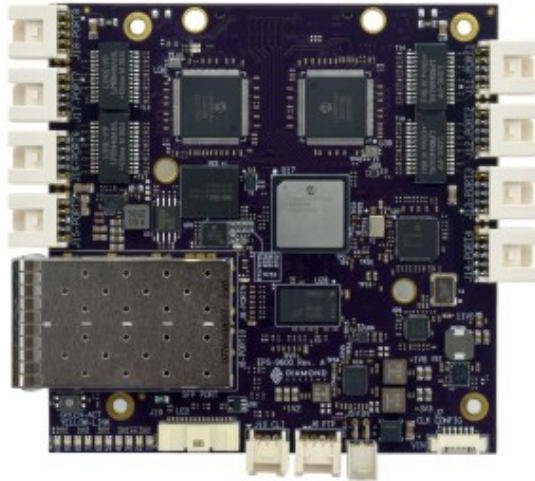
TSN capability with IEEE-1588 PTP and more

Layer 3 management software (see text for details)

Heat sink and heat spreader cooling options

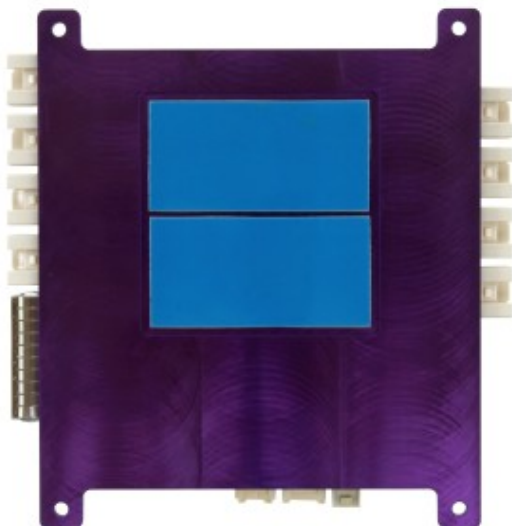
4.00 x 4.00" / 102 x 102mm with PC104 mounting hole pattern

-40 to +85C operation



EPS-9600 with thermal solution removed





EPS-9600 with heat spreader (heat spreader view)



EPS-9600 with heat spreader (board view)

◆ Description

EPS-9600 family introduces a new level of price, performance, and size in rugged embedded Ethernet switches. The family is based on the Microchip LAN969x family, featuring high capacity and port count with 10G switching capability and Time Sensitive Networking (TSN) capability. The base model includes 8 1G copper ports and 2 SFP+ sockets supporting 10Gbps data rates. A daughter board connector on the bottom side supports expansion of additional 1G, 2.5G, and 10G ports using standard or custom daughter boards.

In accordance with Diamonds standard design philosophy, EPS-9600 is designed and built to serve rugged applications. All I/O connectors are latching for improved reliability, and all components as well as the entire board are rated for -40 to +85C operation. Both heat sink and heat spreader cooling options are available to support varying installation requirements. The PC104 mounting hole pattern provides compatibility with other industry products and facilitates installation in existing mechanical platforms.

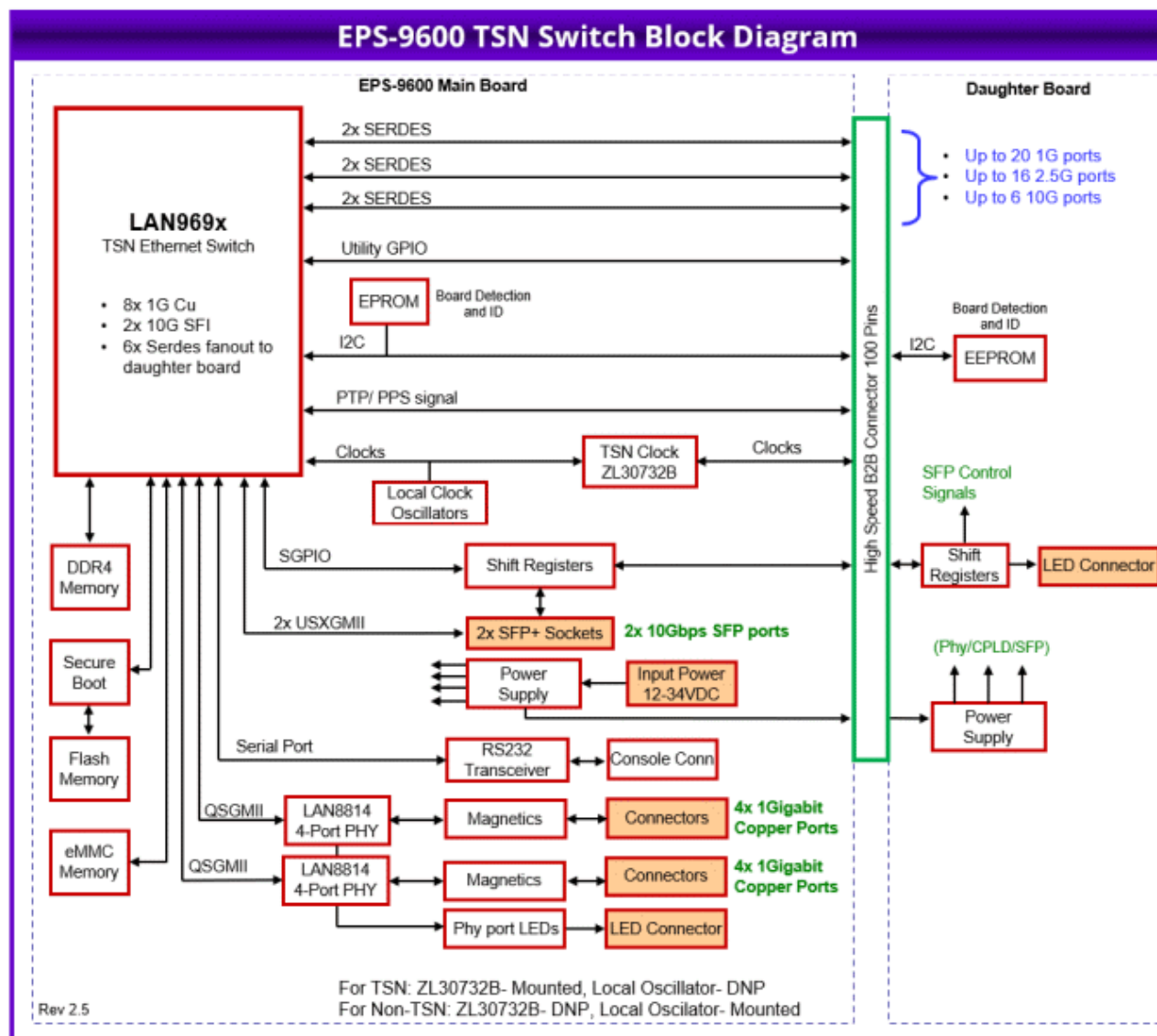
To cover a broad range of customer needs, EPS-9600 is available in both a low-cost base model and a full-featured model with higher bandwidth and TSN support. Custom daughterboards are available by request.

Embedded Software

The layer 3 embedded software provides an impressive array of features for management of embedded networks. A partial list of features is shown below. Download the complete feature list [here](#).

- VLAN
- MSTP
- RSTP
- Link aggregation
- IGMP snooping
- Port mirroring
- Software- and hardware-based IPv4 / IPv6 L3 static routing
- QoS
- Storm control
- Port and Queue policers
- Port-based single and multiple 802.1x
- RADIUS accounting
- JSON-RPC
- IPv4/IPv6 ping and traceroute
- Port speed/duplex mode/flow control
- 802.1Qbb priority-based flow control
- Jumbo frame support
- Link monitoring
- Port statistics

Block Diagram



Models and Accessories

EPS-9600

Available Models:

EPS-9610-HSK	EPS-9600 with 8x 1Gbps ports, 2x 10Gbps SFP+, Layer 3 Embedded Software, Heat Sink	Coming Soon
EPS-9610-HSP	EPS-9600 with 8x 1Gbps ports, 2x 10Gbps SFP+, Layer 3 Embedded Software, Heat Spreader	Coming Soon
EPS-9610-TSN-HSK	EPS-9600 with 8x 1Gbps ports, 2x 10Gbps SFP+, Layer 3 Embedded Software, Time-Sensitive Networking, Heat Sink	Coming Soon
EPS-9610-TSN-HSP	EPS-9600 with 8x 1Gbps ports, 2x 10Gbps SFP+, Layer 3 Embedded Software, Time-Sensitive Networking, Heat Spreader	Coming Soon
CK-EPS9600-01	Cable Kit for EPS-9610: 8x Gbe to RJ-45, Power, Serial	Coming Soon

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