# **EPS-12002L** EPS-12002L Compact 12+2 Port Managed Ethernet Switch





# EPS-12002L switch with cooling solution removed to show detail

# FEATURES

Rugged Ethernet switch for vehicle and other harsh environment applications

12 gigabit Ethernet ports for twisted

12 gigabit Ethernet ports for twisted pair connections

2 1/2.5/5/10G SFP+ sockets for fiber or copper transceivers

All ports feature non-blocking wirespeed performance

Layer 2+ switching and Layer 3 routing software available

IEEE 1588 PTP support available

Software customization and branding available

Rugged design with latching connectors and -40 to +85°C operating temperature

5.3 x 2.2" / 136 x 55mm

Heat sink and heat spreader thermal options



EPS-12002L switch end view, cooling solution removed



### EPS-12002L-HSK with integrated heat sink

The EPS-12002L is a compact managed rugged Ethernet switch based on Diamond's **EPSM-10GX** Ethernet switch module. The switch consists of the EPSM-10GX module mounted on a carrier board that provides power, magnetics, and connectors, along with a heat sink or heat spreader. EPS-12002L provides 12 10/100/1000Mbps copper ports and 2 1/2.5/5/10Gbps SFP+ sockets for fiber or copper transceivers. EPS-12002L is ideal for vehicle and industrial applications requiring a small form factor with gigabit Ethernet switching and fiber connectivity support.

Two software packages are available, Layer 2+ switching and Layer 3 routing/switching. All software 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.

EPS-12002L is designed specifically to meet the challenges of vehicle and other rugged environments, with its -40/+85°C operating temperature range, latching I/O connectors, and MIL-STD-202G shock/vibration resistance. A 5-36V input power supply provides compatibility with a range of industrial and vehicle power supplies.

#### Embedded Software

Two software packages are available: Layer 2+ switching and Layer 3 routing/switching. In addition, IEEE-1588 precision time protocol support is available with a minor modification to install a precision clock circuit on the board. All software 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. Customer branding is available to put your logo / color scheme / part numbers on the GUI and serial interface.

The table below shows some of the more popular features available. For a complete list of features available in each software package, **click here.** 

### <u>Layer 2+ software highlights include the following:</u>

8K MAC addresses and 4K VLANs (IEEE 802.1Q)

8K IPv4 and IPv6 multicast group support

Jumbo frame support at all speeds

Flexible link aggregation support based on Layer-2 through Layer-4 information (IEEE 802.3ad)

Multicast and broadcast storm control, as well as flooding control

Rapid Spanning Tree protocol (RSTP) and MSTP

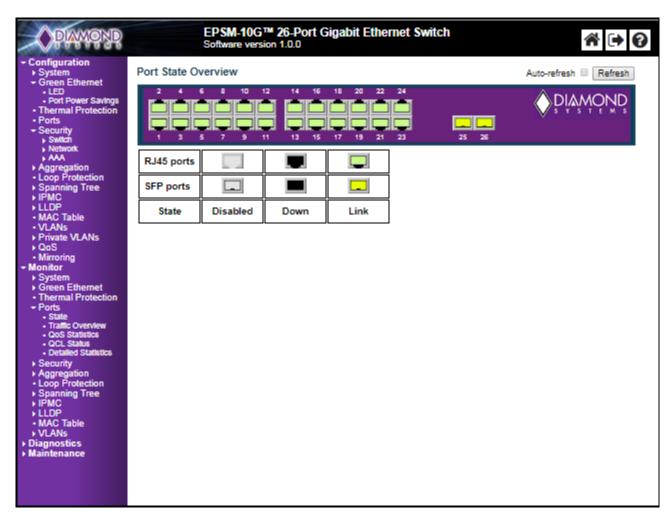
Multiple protocol support: IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, and IEEE 802.1X

8 priorities and 8 QoS queues per port with scheduling

## <u>Layer3 software additional highlights:</u>

Hardware- and software-based IPv6 L3 static routing

RFC 2328 OSPFv2 dynamic routing



## • Cable Kit

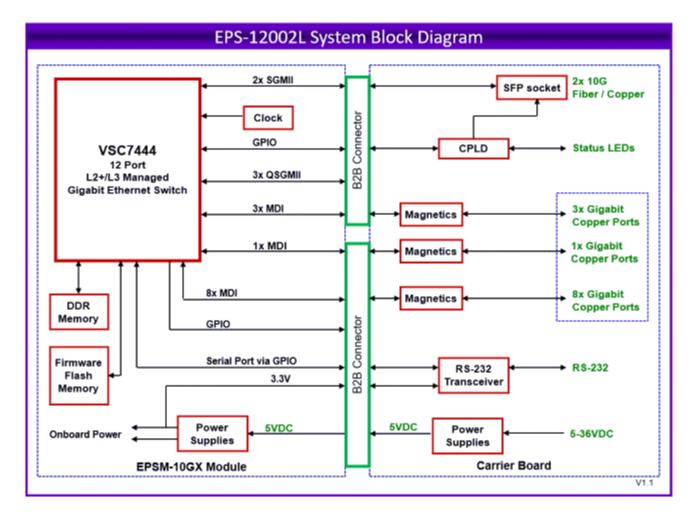
Cable Kit for EPS-12000-CM: 3x Quad Gigabit Ethernet cables, Power cable, Serial cable



## CK-EPS12000 includes the following cables:

No.	Qty	Cable	Description	Drawing
1	1	6981050	Serial Cable, 1x3 2mm to DB9M	Show
2	1	6981507	Power Cable, IPD 2x2 to Leads, 20AV	Show
3	3	6981508	Ethernet Cable, 4 Ports, JST 32 Pin	Show





- Ordering Information
- Models and Accessories

**EPS-12002L** 

#### available models:

EPS-12002-HSK	12 1Gbe Ports + 2 $1/2.5/5/10$ Gbe SFP+ sockets, Layer 2 software, socket headers, heat sink	By Request
EPS-12002L-HSK	12 1Gbe Ports + 2 $1/2.5/5/10$ Gbe SFP+ sockets, Layer 2 software, heat sink	Available
EPS-12002L-HSP	12 1Gbe Ports + 2 $1/2.5/5/10$ Gbe SFP+ sockets, Layer 2 software, heat spreader	Available
EPS-12002L-HSK-L3	12 1Gbe Ports + 2 1/2.5/5/10Gbe SFP+ sockets, Layer 3 routing software, heat sink	By Request
EPS-12002L-HSP-L3	12 1Gbe Ports + 2 1/2.5/5/10Gbe SFP+ sockets, Layer 3 routing software, heat spreader	By Request

Please login or signup for an online quote request.

#### Cables and accessories

#### available models:

CK-EPS12000 Cable kit for EPS-12000-CM

6981050 Serial Cable, 1x3 2mm to DB9M
6981507 Power Cable, IPD 2x2 to Leads, 20AV
6981508 Ethernet Cable, 4 Ports, JST 32 Pin

Please login or signup for an online quote request.