

**SABRENET-24000 Rugged 24+4 Port Ethernet Switch**

## FEATURES

**EPS-24G4X Ethernet switch with conduction cooling used in SabreNet-24000**

SabreNet-24000 is a rugged ethernet switch intended for vehicle and other applications requiring the ability to withstand harsh environmental conditions. The design is based on Diamond's **EPS-24G4X** Ethernet switch with 24 1G ports and 4 10G SFP+ sockets. The switch runs IstaX Layer 3 routing/switching embedded software featuring an impressive array of features suitable for most industrial and military applications.

The standard configuration includes the 4 10G ports implemented with copper wiring via M12 X-coding connectors. Customer choice of fiber links can be accommodated as well. In the fiber configuration, the SFP+ Copper/RJ-45 modules are replaced with customer's choice of fiber modules with LC connections, and the I/O connectors consist of D38999 size C shells with 4 fiber termini (2 ports) per shell.

Input power range is 7-40VDC. The switch includes a power filter module providing compliance with MIL-STD-461-D standards.

## Embedded Software

The IstaX embedded software in SabreNet-24000 provides a powerful array of features to support most embedded switch application requirements. All features are configured and managed 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.

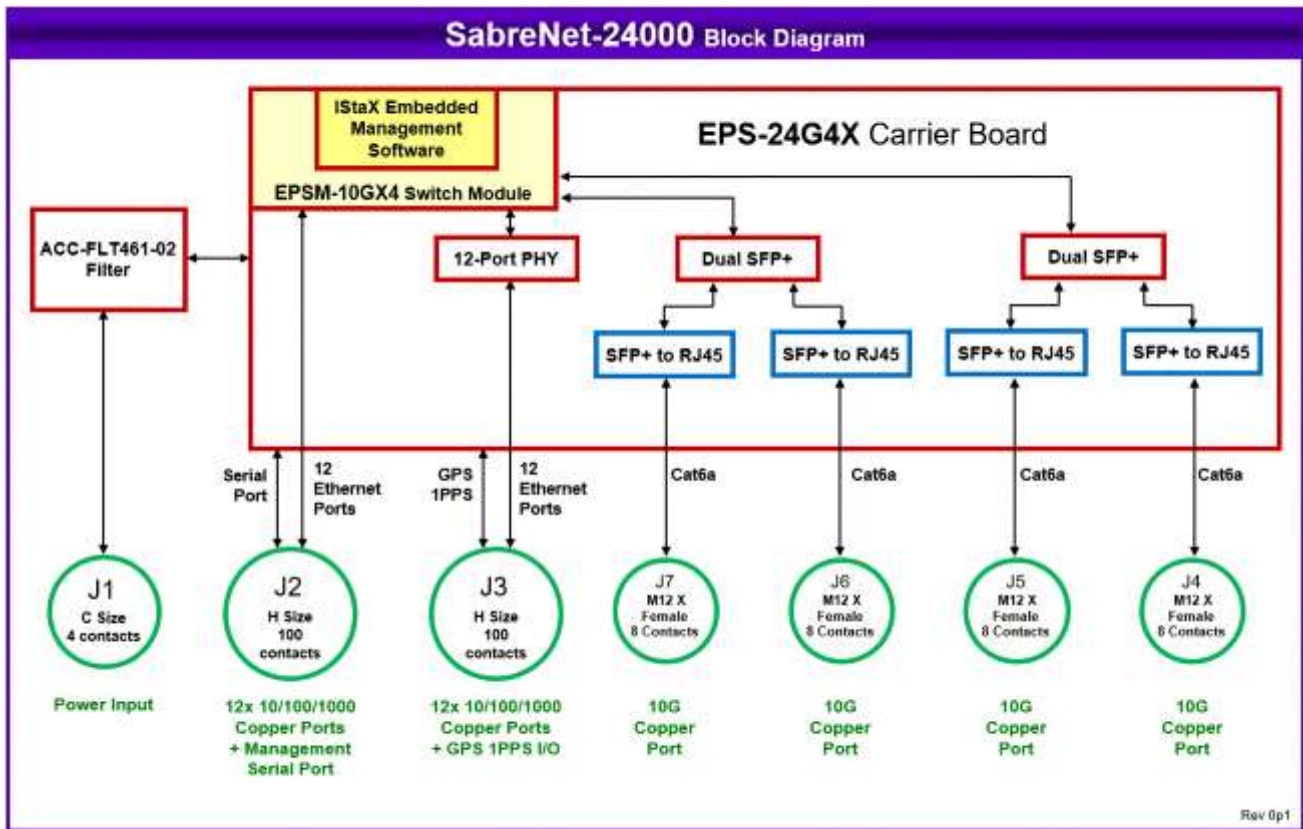
The table below shows some of the more popular features included in the software. For a complete list of features, [click here](#).

- 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
- Hardware- and software-based IPv6 L3 static routing
- RFC 2328 OSPFv2 dynamic routing
- IEEE 1588 precision time protocol (PTP)
- RADIUS accounting
- Port and Queue policers

The screenshot displays the web management interface for the EP5M-10GX4 GigaBit Ethernet Switch. The interface is accessed via a browser at the URL 192.168.1.60/index.htm. The main content area shows the 'Port State Overview' section, which includes a 'Front panel' diagram and a table of port states.

The 'Front panel' diagram shows 28 ports, numbered 1 through 28. Ports 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, and 27 are RJ45 ports. Ports 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, and 28 are SFP ports. The diagram shows that ports 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, and 27 are in a 'Link' state, while ports 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, and 28 are in a 'Down' state.

Port Type	Port 1	Port 2	Port 3	Port 4
RJ45 ports	Link	Down	Link	Down
SFP ports	Link	Down	Link	Down
State	Link	Down	Link	Down



◆ **Ordering Information**

◆ **Models and Accessories**

◁ **SabreNet-24000** ▷

**Available Models:**

**SABRENET-24000-001** SabreNet Rugged Switch, 24 1G + 4 10G Copper Ports Build to order

**SABRENET-24000-002** SabreNet Rugged Switch, 24 1G Copper + 4 10G Fiber Ports Build to order

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