

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



**SabreNet-24000 with 4x Copper 10G Ports**



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

### **FEATURES**

24 10/100/1000 Mbps copper Ethernet ports (twisted pair)  
4 1/2.5/5/10Gbps copper (M12) or fiber (LC) ports with user choice of SFP+ transceiver  
Non-blocking wire-speed performance on all ports  
Web-based management via any Ethernet port  
RS-232 serial port provides out-of-band command-line interface

Wide input voltage range: 9-60VDC

Rugged power supply with isolation and MIL-STD-461, MIL-STD-1275, and MIL-STD-704 compatibility

MIL-STD-810 shock and vibration rating

IP67 rated construction

MIL-DTL-38999 Series III connectors for power and 1G copper ports

285mm W x 254mm D x 82mm H / 11.2" W x 10.0" D x 3.2" H

-40C to +85C operating temperature

Customizable branding and connectorization

### **Layer 2 software sample features:**

Jumbo frame support at all speeds

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

8K IPv4 and IPv6 multicast group support

VLAN support

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

Multicast and broadcast storm control, as well as flooding control

Rapid Spanning Tree protocol (RSTP) and MSTP

Dual leaky bucket policers with remarking and statistics



8 priorities and 8 QoS queues per port with scheduling  
 Shaping/policing per queue and per port  
 IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, and IEEE 802.1X support  
 Check documentation for full details on Layer 2 switching and Layer 3 routing software capabilities

**Optional XBeam 10GbE Fiber connector (2 ports / 4 channels per connector)**



**Optional rugged 10GbE fiber connector with termini (2 ports per connector)**

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.

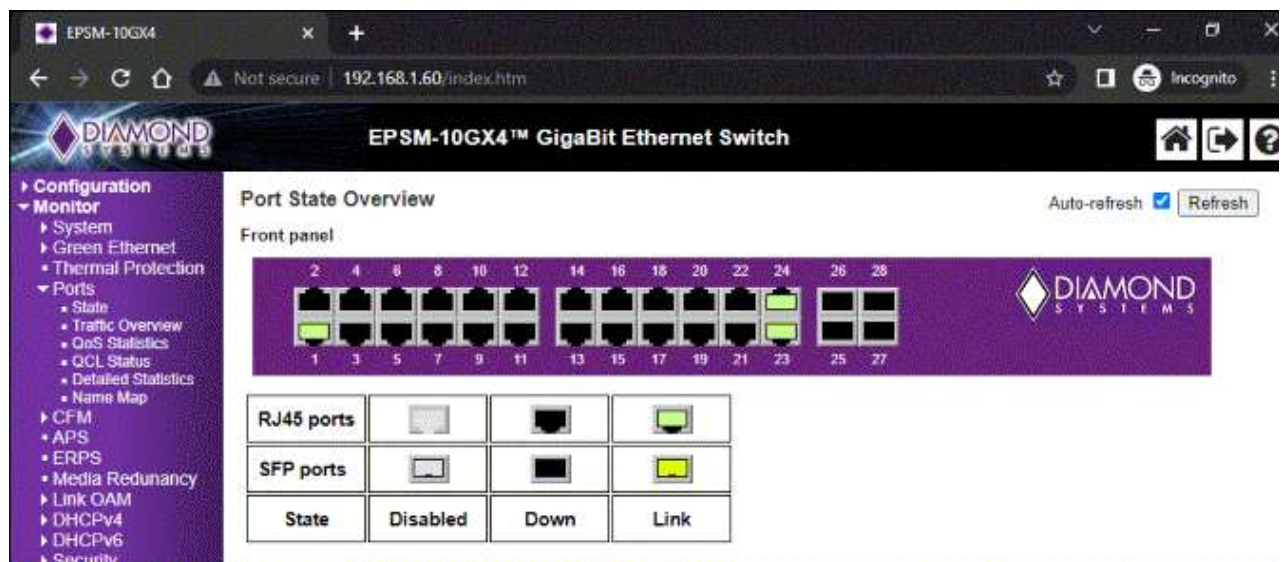
The standard configuration includes the 4 10G ports implemented with copper wiring via M12 X-coding connectors. Customer choice of fiber links can be accommodated as well. In the fiber configuration, the SFP+ Copper/RJ-45 modules are replaced with customer's choice of fiber modules with LC connections, 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.

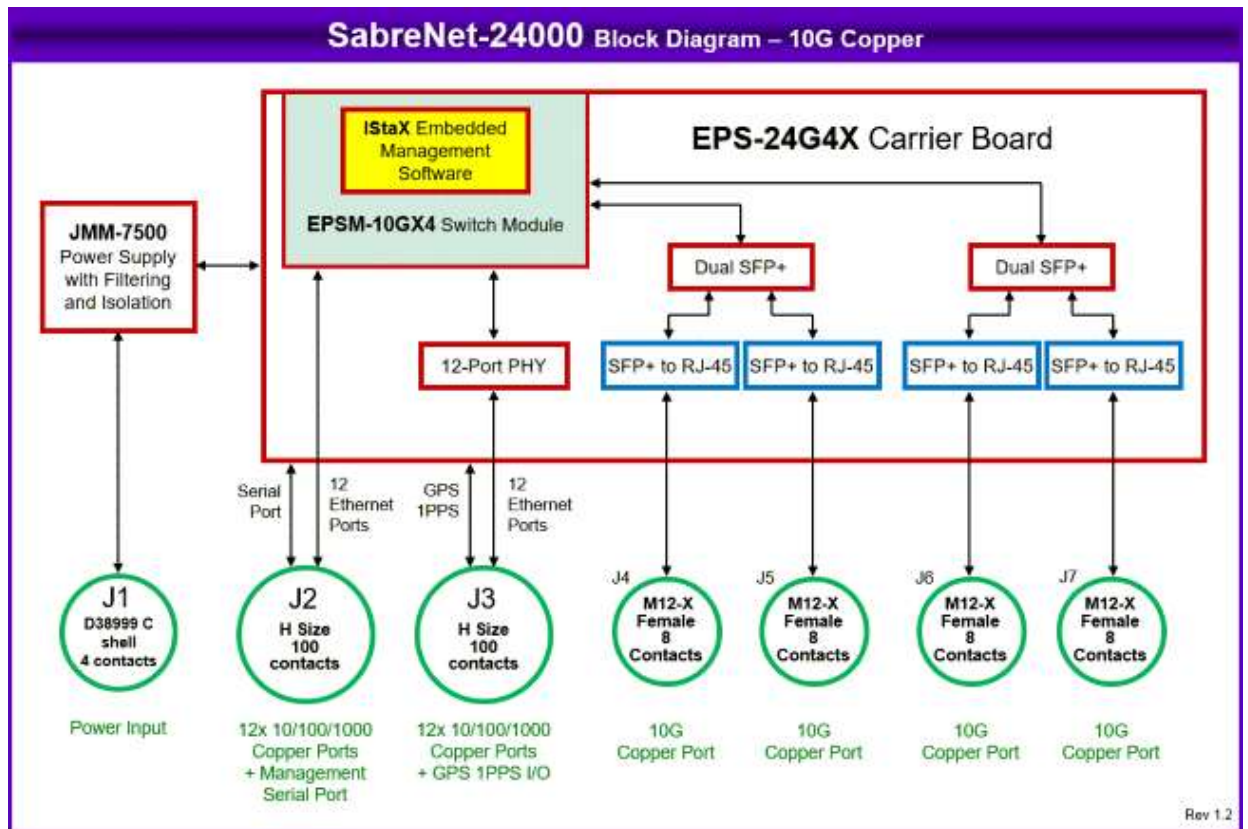
The IstaX embedded software in SabreNet-24000 provides a powerful array of features to support most embedded switch application requirements. All features are configured and managed via a GUI web interface accessible over any port, as well as with a command language accessed via a built-in RS-232 port. 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](#).

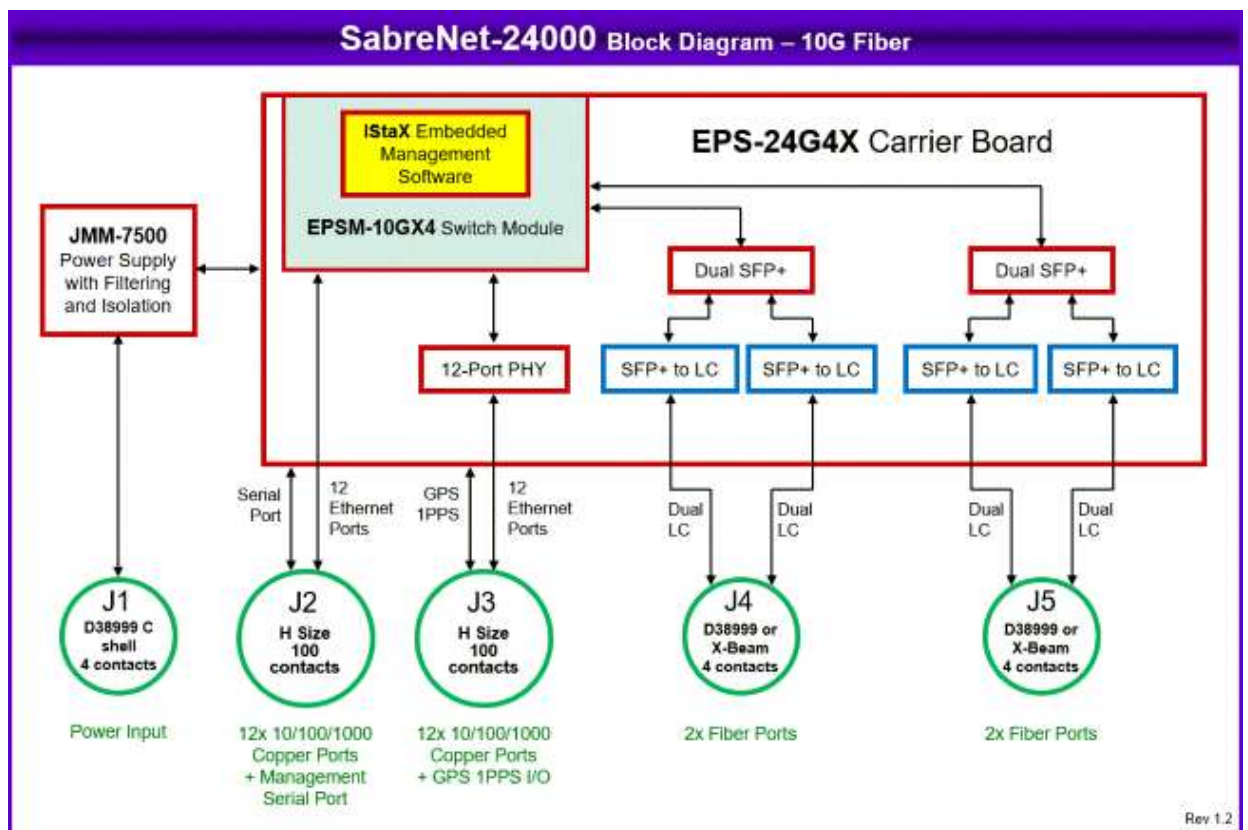
8K MAC addresses and 4K VLANs (IEEE 802.1Q)  
8K IPv4 and IPv6 multicast group support  
Jumbo frame support at all speeds  
Flexible link aggregation support based on Layer-2 through Layer-4 information (IEEE 802.3ad)  
Multicast and broadcast storm control, as well as flooding control  
Rapid Spanning 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



SabreNet-24000 is available in a variety of standard configurations, with your choice of 2 or 4 Copper or Fiber 10Gbe ports. Copper ports are provided on M12 X-coded connectors with 1 port per connector. Fiber ports are provided with either low-cost, rugged X-Beam connectors or traditional 38999 shells with termini. External lab-grade cables and cable kits are available for each option.



**SabreNet with 4 10GbE copper ports (click arrow to see fiber port configuration)**



**SabreNet with 4 1G/10GbE fiber ports (click arrow to see copper port configuration)**



## Models and Accessories

### SabreNet-24000

#### Available Models:

<b>SABRENET-24000-001</b>	SabreNet Rugged Switch, 24 1G + 4 10G Copper Ports	Build to order
<b>SABRENET-24000-002</b>	SabreNet Rugged Switch, 24 1G Copper + 4 10G Fiber Ports	Build to order

Please [login](#) or [signup](#) for an online quote request.

[www.diamondsystems.com](http://www.diamondsystems.com) | [Sunnyvale, California USA](#) | [+1-650-810-2500](tel:+16508102500) | [sales@diamondsystems.com](mailto:sales@diamondsystems.com)