

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.

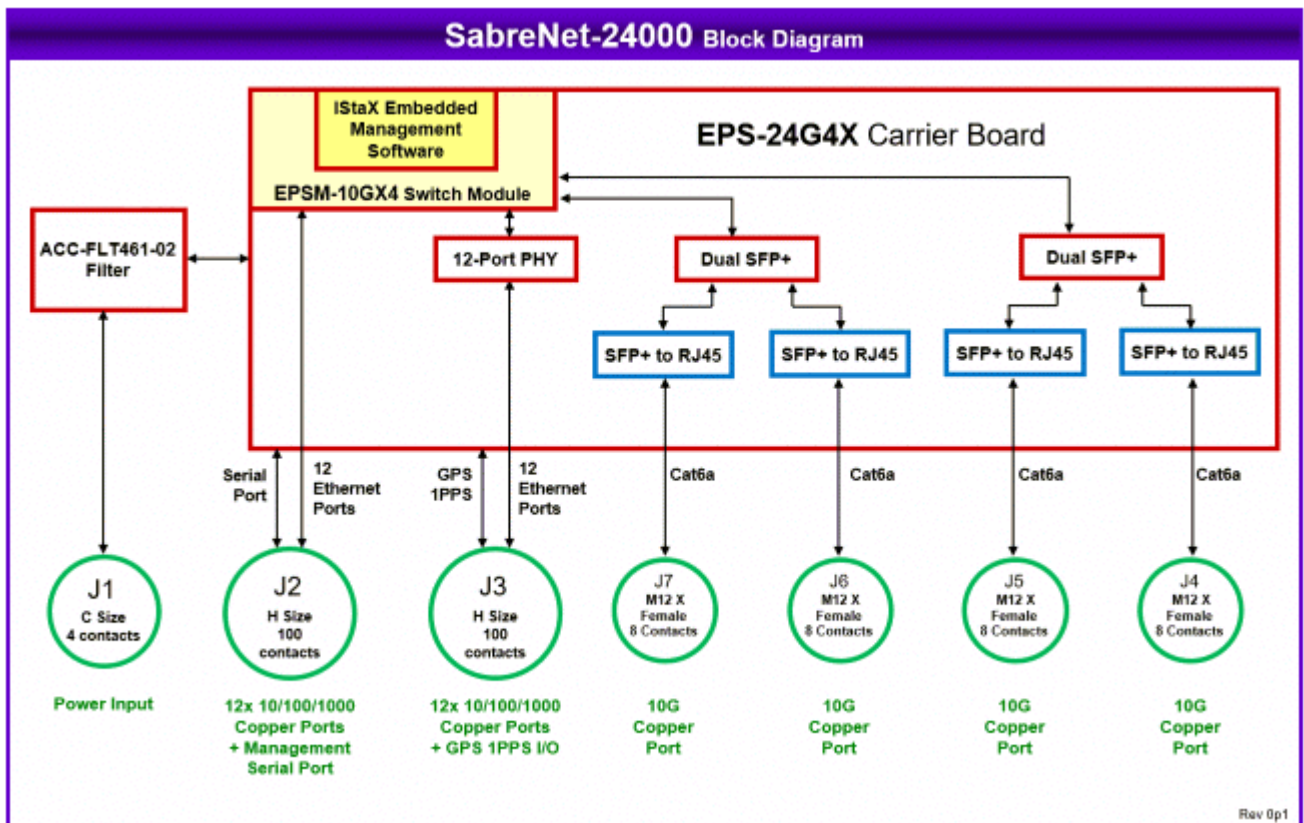
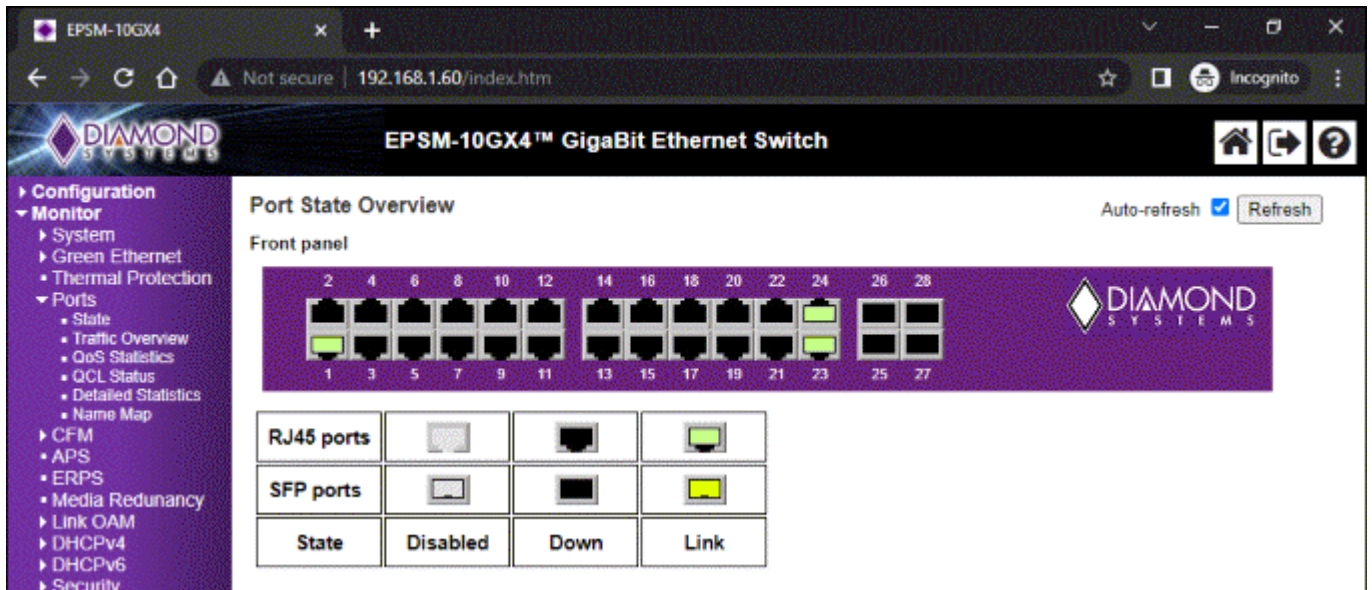
Embedded Software

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



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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