

Overview

The EN450 provides 4 10/100Mbps TX Ethernet Ports with 2 fiber 100Base-FX ports. The fiber optic ports support multimode and single mode fiber using either SC or ST connectors. Distances of up to 100 meters (10/100Base-TX) and 2 km (Multi-mode) and 20km (Single-mode) with standard two fiber interface.

The fiber optic ports also provide one (Single-mode) fiber solution in Daisy-chain and Redundant Ring configurations with distances are up to 50 Km between two locations.

This product supports store-and-forward switching scheme to ensure low latency and high data integrity, eliminating unnecessary traffic and relieving congestion along critical network paths. With an intelligent address recognition algorithm, the EN450 can recognize up to 2K different MAC addresses and enables filtering and forwarding at full wire speed.

As a workgroup switch, the 4 10/100Base-TX ports and up to 2 fiber ports provides a cost effective, high performance solution for power users. With a 4.5Gbps non-blocking switching fabric, the EN450 easily provides a high bandwidth Fast Ethernet network for a departmental backbone.

Applications

- ITS over Ethernet
- SCADA over Ethernet
- Homeland Security
- Duplex and Single Fiber Switching
- Departmental/Workgroup Switch
- Local and Wide Area Network Extension



Features

- Complies with IEEE 802.3 and IEEE 802.3u, 10/100Base-TX, 100Base-FX
- 4-port 10/100Base-TX Fast Ethernet Switch
- Each switching port supports auto-negotiation
- 2-port 100Base-FX fiber-optic interface
- 2K MAC address table, auto-learning/ageing
- Complete Runt and CRC filtering eliminates erroneous packets to optimize network bandwidth
- IEEE 802.3x full-duplex flow control, half-duplex back-pressure flow-control
- Auto MDI/MDI-X on each RJ-45 port for easy switch/hub cascading
- Daisy-chain and Redundant Ring configurations
- One SM fiber solution
- Extending Distances Among Ethernet Segments
- Linking Ethernet Segments
- Full/Half Duplex Connection between work-station to a switch
- A Bridged Full Duplex Uplink Port Capable of Driving Long Distances
- NEMA 4 Extended Temperature Range

Ordering Information

| Model | Description |
|-------------|--|
| EN450ST03 | 4-Port 10/100Mbps Desktop Switch + 1-Port 100Base-FX, 1310 SM, ST |
| EN450ST35 | 4-Port 10/100Mbps Desktop Switch + 1-Port 100Base-FX, 1310/1550, SM, ST, 1 fiber, 30KM |
| EN450N2ST03 | 4-Port 10/100Mbps Desktop Switch + 2-Port 100Base-FX, 1310 SM, ST |
| EN450N2ST35 | 4-Port 10/100Mbps Desktop Switch + 2-Port 100Base-FX, 1310/1550, SM, ST, 1 fiber, 30KM |

Specifications

| System: | |
|--------------------------|--|
| Ports | 4 10/100Base-TX auto MDI/MDI-X 2 100Base-FX |
| Switch Processing Scheme | High performance Store and forward |
| MAC Address Table | 2k entries, auto learning/ ageing |
| Queue Buffer | 256Kb shared buffer |
| Packet Control | Runt and CRC filtering, Broadcast storm control |
| Network Standards | IEEE 802.3, IEEE 802.3u IEEE 802.3u |
| CE Mark | EN50081-1, EN55022 Class A, EN50082-1, IEC 1000-4-2/3/4/6 |
| Emissions | FCC Class A, VCCI Class A, CISPR 22 Class A |
| Safety | CSA/NRTL (c.22.2.950, UL1950) TUV/GS (EN60950) |
| Immunity | IEC 801-2/3/4, EN60555-2 Class A, EN60555-3 |

| Supports: | |
|-----------------------|----------------------------------|
| Standards | IEEE – 802.3 TIA/EIA - 785 |
| Data Speed | 10/100 Mbps |
| Operation Mode | Haft / Full Duplex |
| Singlemode, Standard | 20 Km |
| Singlemode, DFB Laser | 50 Km |
| Fiber Interface | Two fibers, One Fiber (SM) |
| RJ45 Interface | |
| UTP Crossover | Straight, Crossed, Auto MDI/MDIX |
| UTP Auto-Negotiation | Auto Negotiation, Manual |
| Mode | Half Duplex, Full Duplex |
| Physical: | |
| Dimensions | 10" x 8.0" x 1.75" |
| Weight | 2 lb. |
| Environment: | |
| Standard | NEMA 4 |
| Operating | -34C to 74C |
| Storage | -40C to 95C |
| Humidity | 95% Non-Condensing |
| Power: | |
| DC | 9VDC Power Supply |

Application

