

# ***ITSEXPRESS*** **8012-24+**

## Combination 24-port Hardened Layer 2 Ethernet Switch With Optical Bypass

16 Port 10/100/1000TX  
Copper Ports

8 100/1000 Hybrid SFP  
Ports Optical Monitoring

Email Alerts!

IGMP V1, V2, V3

Multicast Filtering

56 GB Backbone

\*Support 100M/1G/10G  
optical bypass function  
of 2 port duplex or 4 port  
simplex fiber connection

Ships With Two Optics

US Based Support!



Copyright © 2003-2014  
sFlow.org. All rights reserved.

Distributed By:

Express Supply Inc.

407-497-8614

info@expressupply.net

www.expressupply.net



### ITS EXPRESS 8012-24+

16 Port 10/100/1000TX Copper Ports  
Optical Monitoring = Instant status

Layer 2+ Managed Hardened  
IGMP Video Switch

8 10/100/1000 Dual Speed  
Hybrid Fiber SFP Combo Ports  
Fast Recovery Time < 10 ms over  
250 units of connections

Designed For Heavy Multi-Cast  
High Heat Traffic Demands

Back Plane (Switching  
Fabric): 56 GBPS,  
8K MAC Address

Multiple Configurations: Web  
Browser, CLI, Telnet

Event Notification: Syslog, Email,  
SNMP & Relay Output

Full Layer 2+ Management,  
802.1x Authentication

QoS Port-Based STP/RSTP  
/MSTP (IEEE 802.1D/w/s)

Supports IGMP Query &  
Snooping version 1,2 & 3

Dual Redundant PS Guarantees  
non-stop operation

Remote monitoring (RMON)

S-Flow network monitoring technology

Support 100M/1G/10G optical  
bypass function of 2 port duplex  
or 4 port simplex fiber connection

Different model supported for  
Throughput not affected and  
no extra delay

Bypass switching time <10ms

Dual Wide range power inputs:  
Relay output for power failed warning

Low insertions loss  
12~48VDC

## ITS Express 8012-24+ Specification

<b>Standards</b>	IEEE Std. 802.3 10BASE-T; IEEE Std. 802.3u 100BASE-TX and 100BASE-FX; IEEE Std. 802.3z 1000BASE-X; IEEE Std. 802.3ab 1000BASE-T; IEEE Std. 802.3x Flow; IEEE Std. 802.3ad Port trunk with LACP; IEEE Std. 802.1d Spanning Tree Protocol; IEEE Std. 802.1w Rapid spanning tree; IEEE Std. 802.1p Class of service; IEEE Std. 802.1q VLAN Tagging; IEEE Std. 802.1x user authentication; IEEE Std. 802.1s MSTP; IEEE Std. 802.1ab LLDP
<b>Protocols</b>	CSMA/CD
<b>Processing</b>	Adaptive Cut Through / Store and Forward switching
<b>Ethernet Switch Connectors</b>	16x 10/100/1000 TX / Dual Speed 100/1000 SFP Ports Plus 8x 1000 Base SFP
<b>MAC Addresses</b>	8192 MAC address table
<b>Memory Buffer</b>	128Kbytes
<b>Jumbo Frames</b>	Max 9 Kbytes jumbo frame support
<b>Backplane</b>	56GBPS
<b>LEDs</b>	Per Unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green) Port 10/100: Link Activity (Green), Full Duplex/Collision (Yellow), Giga Port: Link Activity
<b>Power Supply</b>	Two internal 120VAC power supplies in a dual redundant configuration
<b>Power Consumption</b>	29.2 Watts
<b>Operating Temperature</b>	-40oC ~ 85oC ( No Fans)
<b>Dimensions</b>	96.4 (W) x 108.5 (D) x 154 (H) mm (3.8 x 4.2.7 x 6.06 inch)
<b>EMI</b>	FCC Class A, CE EN61000-4-2, CE EN61000-4-3, CE EN-61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, CE EN6100-4-11 CE EN61000-4-12, CE EN61000-6-2, CE EN 61000-6-4 & NEMA TS-2 (traffic control equipment)
<b>Safety Compliance</b>	UL, cUL, CE/EN60950-1
<b>Optical Bypass Physical Ports</b>	LC Connector: 4 Duplex Single-mode LC connector
<b>Fiber Ethernet Specifications for Fiber Bypass Switch</b>	Optical Fiber: Single Mode 9/125nm or Multi Mode 50/125 and 62.5/125nm Operating Wavelength: 1260 ~ 1570nm for SM or 850 – 1300nm for MM Switch Time: <10ms
<b>LED Indicators</b>	Power Indicator - Green : Power LED x2 Normal Indicator - Green On : Operated in normal mode
<b>Fault Contact</b>	Relay output for power failure warning

**Management:** SNMP v1 v2c, v3/ Web/Telnet/CLI/Menu Driven\*\* Management, Window's based Innerspace Software Suite

**Software features:** Full function real-time graphical user interface, Redundant Ring protocols with recovery time less than 10ms over 250 units, TOS/Diffserv supported

**sFlow:** network enabling performance optimization

**QOS:** Quality of Service (802.1p) for real-time traffic

**Switch Properties:** Switching latency: 7 us, Max. Number of Available VLANs: 256 (VID 1-4096)

**IGMP multicast groups:** 256, Port rate limiting: User Define

**Security Features:** Enable/disable ports, MAC based port security, Port based network access control (802.1x), VLAN (802.1Q) to segregate and secure network traffic Radius centralized password

management, SNMPv3 encrypted authentication and access security

**VLAN:** VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP v1, v2 & v3 snooping for multicast filtering Port configuration, status, statistics, monitoring, security

**RS232 Serial Console Port:** RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1

**Network Redundancy:** STP, RSTP, MSTP, ITS-Ring, G.8032, Express-Chain, Express-Ring multi-vendor support

**Firmware Update:** Supports TFTP firmware update, TFTP backup and restore.

**Spanning Tree:** Supports IEEE802.1D/w/s Spanning Tree

**Port Mirror:** Supports 3 mirroring types: "RX, TX and Both packet"

**Warranty:** 5 Years