

ITS EXPRESS
8040/8040+

Most Advanced and Flexible Hardened Layer 2++ Bypass-Multicast Cabinet Switch

ITS Express switches have been specifically engineered to handle the challenging demands of tough environmental conditions and High bandwidth, Real-time 1080P Multicast environments.

A vast array of redundancy protocols combined with dual redundant power supplies ensure maximum uptime for mission critical applications.

The ITS-8040 provides State of The art Switching Next-Generation ASICs and robust backplane (56GBPS) found on the "best-of-breed" ITS-8012, but at a lower price point.

Network Security, Port-based Network Access Control (IEEE 802.1X) HTTPS Secure Web GUI, SSHv2 for Secure Remote Command Line Login, Rate Limiting, ACL Policies, QOS, TOS, COS. Adaptive Cut-Through Switching Q in Q Vlans

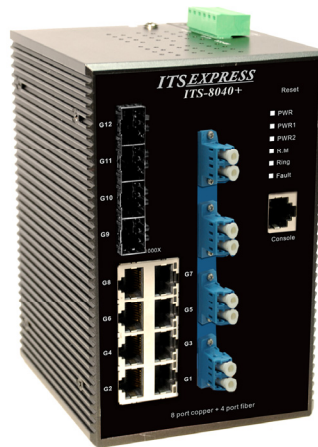
State of the Art Firmware features, which have been designed around the ITS Market and heavy multi-cast environments

Two Optics are Included with each switch.

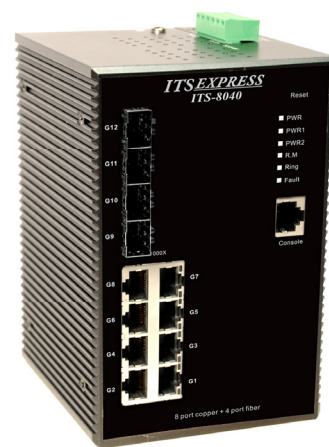
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ITS-8040+



ITS-8040

- Exceeds NEMA TS-2 Spec's
- Remote monitoring (RMON)
- Advanced Real Time Copper Cable testing
- Optical Monitoring With Mapping Capabilities
- Layer 2++ Managed Hardened IGMP Video Switch
- 4x 100 or 1000 Dual Speed Hybrid Fiber SF Ports
- 8 Port 10/100/1000TX Copper Ports ~ 56 GBPS Back-Plane
- Event Notification: Email SMTP, Syslog, SNMP & Relay Output
- Fast ITS Ring Recovery Time < 10ms over 250 units of connections
- Multiple Switch Configurations: Web, Telnet, CLI, CLI Menu
- Easy to Configure, Web interface designed by ITS users
- Email notifications For Fiber Outages, Port Down, ETC.
- Designed For Heavy Multi-Cast in Harsh environments
- Mix and Match Multimode and Single Mode Fiber and Support 100M/1G/10G optical bypass function of 2 port duplex or 4 port simplex fiber connection
- Full Layer 2+ Management, 802.1x Authentication
- Mix and Match 100 and 1000 Fiber
- Bypass switching time <10ms
- S-Flow network monitoring

Express Supply Inc.

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407-497-8614

ITS Express 8040/8040+ Specification

Standards	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, G.8032
Processing	Adaptive Cut through / Store Forward
Connectors	4 100/1000 SFP Plus 8 10/100/1000 Base T Copper
MAC Addresses	8192 MAC address table
Memory Buffer	256 Kbytes
Jumbo Frames	Max 9 Kbytes jumbo frame support
Backplane	56GBPS
LEDs	Per Unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Yellow), Master (Green) 8 Port 10/100: Link Activity (Green), Full Duplex/Collision (Yellow), Giga Port: Link Activity
Power Supply	Dual DC inputs. 12~48VDC on 6-pin terminal block
Power Consumption	8040-V2 11.5 Watts 8040-V2+ 11.3 Watts
Operating Temperature	-40oC ~ 85oC
Dimensions	IP-30, 3.8 x 4.2.7 x 6.06 inches
EMI	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)
Safety Compliance	UL, cUL, CE/EN60950-1

ITS-8040/8040+ Hardened Switch Features:

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

sFlow: network enabling performance optimization

Software features: STP/RSTP/MSTP (IEEE 802.1D/w/s), Redundant Ring with recovery time less than 10ms over 250 units

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

Optical Power Budget: Up To 160 km SMF

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. 115,000bps, 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.

Priority Queuing: QOS, Quality of Service (802.1p), COS, TOS

Advanced Copper Cable Testing

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

RMON: Remote monitoring

Warranty: 5 Years

Bypass Specifications

Bypass Physical Ports	LC Connector: 4 Duplex Single-mode LC connector
Fiber Ethernet	Optical Fiber: Single Mode 9/125nm Operating Wavelength: 1260 ~ 1570nm Switch Time: <10ms
LED Indicators	Power Indicator - Green : Power LED x2 Normal Indicator - Green On : Operated in normal mode
Fault Contact	Relay output for power failure warning

The ITS EXPRESS 8040+ provides two sets of bypass fiber ports, giving the SFP fiber ports addition redundancy capabilities. Connect a LC fiber cable from a fiber port to a monitor port on the front panel and another LC fiber cable from the corresponding network port to another switch.

When the switch breaks down, incoming traffic will travel through the bypass port board and onto another active switch. Note that the fiber port will still work if it is not connected to any monitor port. However, the fiber port will not have bypass ability when the device is down.

