

**ITSEXPRESS**  
ITS-8020+

# Advanced Cost Effective Hardened Layer 2 Multicast Switch

*Versatile & affordable  
hardened Layer 2  
switch featuring IGMP  
V1,V2, V3*

*Send notifications to  
your Mobile device  
with email capabilities*

*3 100/1000 Hybrid SFP  
Ports Optical Monitoring  
Multicast Filtering  
7.4 GB Backbone  
Email Alerts!*

*Designed and influenced by  
some Of the brightest ITS  
personnel in the industry*

*ITS Express switches have  
been specifically engineered  
to handle the demands of  
the daily challenges of the  
real time rigorous ITS  
Multi-Cast environment*



ITS EXPRESS 8020+

**Industrial 10-port Layer 2 Managed  
Ethernet switch Designed For Harsh  
Multi-Cast Environments**

**7 - 10/100 Base-TX  
3 - 10/100/1000 TX Combo  
100/1000SFP socket**

**Real Time Critical Monitoring!**

**Exceeds Competition Specifications!**

**Send Email Notifications Directly  
From the Switch!**

**Mapping Capabilities With Most  
Popular Traffic Control Software**

- Optical Monitoring With Mapping Capabilities
- Layer 2+ Managed Hardened IGMP Video Switch
- Email notifications For Fiber Outages, Port Down, ETC.
- Multiple Configurations: Web Browser, Telnet, and CLI
- Mix and Match Fiber 100/1000 Plus Multimode / Single
- 7 Port 10/100 TX Copper Ports with 7.4 GBPS Back-Plane
- Event Notification: Email SMTP, Syslog, SNMP & Relay Output
- Fast ITS Ring Recovery Time 10ms over 250 units of connections
  - Easy to Configure, Web Interface designed by ITS users
  - Designed For Heavy Multi-Cast in Harsh environments
  - Full Layer 2+ Management, 802.1x Authentication
    - Mode Fiber and BX Single Strand Fiber too!
    - Supports IGMP V1, V2, V3 and SNMP V3
  - Exceeds NEMA TS-2

**Distributed By:  
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## ITS Express 8020+ 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>	Store and Forward switching
<b>Connectors</b>	10/100 copper: 7; 1000Base-X Combo: 3
<b>Redundant Input Power</b>	100 ~ 240 VAC
<b>Memory Buffer</b>	128 Kbytes
<b>Jumbo Frames</b>	Max 9K bytes jumbo frame support
<b>Backplane</b>	7.4 GBPS
<b>Security Features</b>	IP Police security feature, 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
<b>Power Supply</b>	Dual DC inputs. 12~48VDC on 6-pin terminal block
<b>Power Consumption</b>	12 Watts
<b>Operating Temperature</b>	-40oC ~ 85oC ( No Fans)
<b>Dimensions</b>	74.3(W) x 109.2(D) x 153.6(H) mm (2.93x4.3x6.05 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

### Features:

**Management:** SNMP v1 v2c, v3/ Web/Telnet/CLI/Menu Driven\*\* Management

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

**Switch Properties:** Switching latency: 7 us, Max. Number of Available VLANs: 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. 9600bps, 8, N, 1

**Network Redundancy:** ITS-Ring, STP, RSTP and MSTP

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

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

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

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