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.


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

Two Optics are Included with each switch.

Now Featuring

- 56GB BACK PLANE
- ERP G.8032
- Copper Testing Capability
- s-flow
- Optical Monitoring
- 40~85°C Temperature
- LLDP
- 4K READY

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.  www.expresssupply.net  407-497-8614
ITS Express 8040/8040+ Specification

<table>
<thead>
<tr>
<th>Standards</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing</td>
<td>Adaptive Cut through / Store Forward</td>
</tr>
<tr>
<td>Connectors</td>
<td>4.100/1000 SFP Plus 8 10/100/1000 Base T Copper</td>
</tr>
<tr>
<td>MAC Addresses</td>
<td>8192 MAC address table</td>
</tr>
<tr>
<td>Memory Buffer</td>
<td>256 Kbytes</td>
</tr>
<tr>
<td>Jumbo Frames</td>
<td>Max 9 Kbytes jumbo frame support</td>
</tr>
<tr>
<td>Backplane</td>
<td>56GBPS</td>
</tr>
<tr>
<td>LEDs</td>
<td>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</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Dual DC inputs. 12~48VDC on 6-pin terminal block</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>8040-V2 11.5 Watts 8040-V2+ 11.3 Watts</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C ~ 85°C</td>
</tr>
<tr>
<td>Dimensions</td>
<td>IP-30, 3.8 x 4.2.7 x 6.06 inches</td>
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<tr>
<td>EMI</td>
<td>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 EN61000-4-11 CE EN61000-4-12, CE EN61000-6-2, CE EN 61000-6-4 &amp; NEMA TS-2 (traffic control equipment)</td>
</tr>
<tr>
<td>Safety Compliance</td>
<td>UL, cUL, CE/EN60950-1</td>
</tr>
</tbody>
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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

Bypass Physical Ports

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<tr>
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<tbody>
<tr>
<td>LED Indicators</td>
<td>Power Indicator - Green : Power LED x2 Normal Indicator - Green On : Operated in normal mode</td>
</tr>
<tr>
<td>Fault Contact</td>
<td>Relay output for power failure warning</td>
</tr>
</tbody>
</table>

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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.