



ITT-ISWP-L2-16G4S is a new generation industrial Power over Ethernet Managed switch with 16-Port 10/100/1000Base-TX and 4-Port 100/1000 Base-FX Fast SFP that provide stable and reliable Ethernet transmission offered by Fiberroad, with high quality design and reliability. It is positioning in the broadband network intervention market, to offer and realize Ethernet data exchange, convergence and long- distance optical transmission with efficient bandwidth and reliable fiber optic network solutions for users.

The industrial switch complies with various characteristics such as mini size, no fan, low power consumption, high reliability and stability, and easy to maintain.

ITT-ISWP-L2-16G4S can offer redundant mechanisms for critical applications that need always-on connections. It can also operate either at stand ard operating temperature range -40 to 75°C. Housed in rugged DIN rail or wall mountable IP40 enclosures, these switches are perfect choices for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.



### Features:

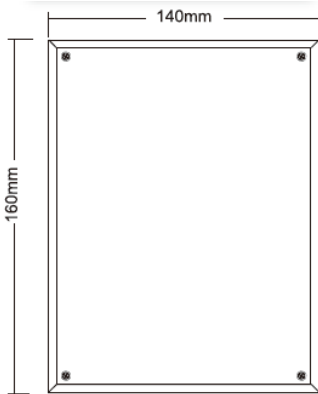
- 16x10/100/1000Base- TX, 4x100/1000Base-FX SFP
- Support Auto- MDIX, and full/half duplex self- negotiation mode
- Provide SC/FC/ST/LC interface fiber port, support single/dual fiber transmission
- Support 10K bytes giant frame, compatible with various extension protocol
- 8K MAC address table
- Support IEEE802.3az energy efficient Ethernet technology
- Support 1Pv6 Protocol
- Electric 8KV surge protection, easy to use in outdoor environment
- Complete status indicator, working state at a glance
- Power input polarity protection design, no worry about wrong operation
- Aluminum case, no fan design
- Installation method: DIN rail/Wall mounting

## Technical Parameters:

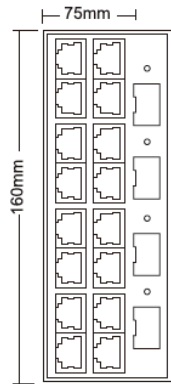
P/N:ITT-ISWP-L2-16G4S

<ul style="list-style-type: none"> <li>Physical Port</li> </ul>	<ul style="list-style-type: none"> <li>RJ45 Port and Speed 16x10/100/1000Base-TX</li> <li>Fiber Port and Speed 4x100/1000Base-FX SFP</li> </ul>
<ul style="list-style-type: none"> <li>Parameters</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet Standards: IEEE802.3 IEEE802.3u IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.3az IEEE802.3Qad IEEE802.3ah IEEE802.1X IEEE802.1Q IEEE1588</li> <li>Packet Buffer: 4M</li> <li>Maximum Packet Length: Up to 10K</li> <li>MAC Address Table: 8K</li> <li>Transmission Mode: Store and Forward (full/half duplex mode)</li> <li>Exchange Property: Delay time: &lt; 7uS Backplane bandwidth: 56Gbps; Packet forwarding rate: 29.76Mpps</li> </ul>
<ul style="list-style-type: none"> <li>PoE (Optional)</li> </ul>	<ul style="list-style-type: none"> <li>PoE Standard: 16x IEEE 802.3af/IEEE 802.3at PoE</li> <li>Power Budget: Max. PoE output power budget 30W</li> </ul>
<ul style="list-style-type: none"> <li>LED Indicator</li> </ul>	<ul style="list-style-type: none"> <li>Power: Connect-always</li> <li>RJ45: Link/Act: connect-always; data exchange-twinkle</li> <li>Fiber: Link/Act: connect-always; data exchange-twinkle</li> </ul>
<ul style="list-style-type: none"> <li>Power Information</li> </ul>	<ul style="list-style-type: none"> <li>PowerAccess Mode: Phoenix terminal, DC seat</li> <li>Redundant Power Input: DC9-56V</li> <li>Overload Protection: Yes</li> <li>Power Reverse: Support</li> <li>Power Consumption: Full-load&lt;15W</li> </ul>
<ul style="list-style-type: none"> <li>Physical Property</li> </ul>	<ul style="list-style-type: none"> <li>Protection Grade: IP40 aluminum case</li> <li>Cooling Mode Natural: cooling, no fan design</li> <li>Dimensions design: 160mmx 140mm x 75mm {LxWx H}</li> <li>Installation Mode: DIN-rail/wall-mountable</li> <li>Weight: 1.05kg (With PoE: 1.1kg)</li> </ul>
<ul style="list-style-type: none"> <li>Working Environment</li> </ul>	<ul style="list-style-type: none"> <li>Operating Temperature: -40°C-75°C</li> <li>Operating Humidity: 5%-90% non-condensing</li> <li>Storage Temperature: -40°C-85°C</li> </ul>
<ul style="list-style-type: none"> <li>Certification standard (EMC)</li> </ul>	<ul style="list-style-type: none"> <li>FCC Part15 Class A</li> <li>CE-EMC/LVD RoHS</li> <li>EN61000-4-2 (ESD), EN61000-4-3 (RS)</li> <li>EN61000-4-4 (EFT), EN61000-4-5 (Surge) EN61000-4-6 (CS), EN61000-4-8</li> <li>EN61000-4-11</li> </ul>
<ul style="list-style-type: none"> <li>Vibration</li> </ul>	<ul style="list-style-type: none"> <li>IEC60068-2-6</li> <li>-40-75°C High and Low Temperature Test</li> <li>IP40 Protection Test</li> </ul>
<ul style="list-style-type: none"> <li>Software Features</li> </ul>	<ul style="list-style-type: none"> <li>Redundant network: STP, RSTP, MSTP, IT-T G.8032 Ethernet Ring Protection Switching (ERPS) for redundant cabling</li> <li>ERPS/ Ring for Redundant Cabling, recovery time&lt;20ms in 250 devices</li> <li>Multicast: IGMP snooping V1/V2/V3</li> <li>VLAN: IEEE 802.1Q 4K VLAN, GVRP, GMRP, QinQ</li> <li>Link Aggregation: Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation</li> <li>Management Function: CLI, Web based management, SNMP v1/v2/v3, Telnet/SSH server for management</li> </ul>

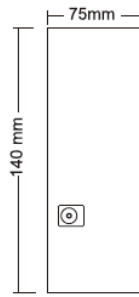
- Diagnostic Maintenance: Port mirroring, Ping
- Alarm management: 1way relay alarm output, RMON, SNMP Trap
- RMON, MIB II, Port mirroring, Event syslog, DNS, SNTP, IEEE 802.1ab LLDP
- Security: DHCP Server/Client/Relay option 82/Snooping User hierarchical management
- Flexibility security: Port based and MAC based IEEE 802.1X, ACL, HTTP/HTTPS, SSLISsh v2 Data control Port-based ingress/egress speed limit, Full duplex IEEE 802.3x, half duplex back-pressure flow control.
- Broadcast storm suppression, Unknown-Multicast suppression and Unknown-Unicast suppression
- Software upgrade via HTTP, redundant firmware to avoid upgrade failure



Side View



Front View



Rear View



Wall-Mount Kit View

Wall-Mount Kit View

DIN-Rail Kit View

### Package List

- 1 x Fiber Switch
- 1 x Rail Mounting Kit
- 1 x Wall Mount Kit
- 1 x Warranty Card