

Industrial L3 16-Port 10/100/1000T 802.3at PoE M12 + 2-Port 10GBASE-T M12 Bypass Managed Ethernet Switch





Advanced Layer 3 Managed PoE Switch for Railway Transportation and Harsh Environments

PLANET ITS-6326 Industrial Managed Switch Series, featuring PoE and 10G M12 connector, is specifically designed for railway system. Compliant with **EN50155**, **EN45545-2**, and **IEC 61373** standards, it offers robust features tailored to excel in demanding environments. This series supports dual-stack management for both IPv6 and IPv4, incorporates built-in Layer 3 OSPFv2 dynamic routing, and is powered by a high-performance Layer 2/Layer 4 Gigabit switching engine.

This series provides extensive functionality, making it ideal for both railway and heavy industrial applications. Equipped with M12 X-code connectors for each port, it ensures reliable and stable performance. With the capability to operate seamlessly in extreme temperatures ranging from -40 to 70°C, it offers exceptional adaptability, durability, and silent operation, making it suitable for the harshest industrial conditions.

Also, this series is available in two distinct models, as detailed in the table below. This variety provides users with the flexibility to choose the model that best meets their specific needs.

	ITS-6326-16P2TB-WV	ITS-6326-16P2T-WV
10/100/1000BASE-T, M12, 8-pin X-coded Connector with 802.3at PoE+	16	16
10G/5G/2.5G/1GBASE-T, M12, 8-pin X-coded Connector	2	2
Power Failure Bypass Pair; Link Speed up to 10GBASE-T	1-Pair (Ports 17-18)	-
Power Input Voltage	24 to 1	10 VDC

High-performance 10Gbps Ethernet Capability

Some models in the ITS-6326 series include **two 10G M12** ports, designed with a high-performance switch architecture that provides non-blocking switch fabric and wire-speed throughput of up to **72Gbps**. This robust capability effectively simplifies LAN upgrades to accommodate increasing bandwidth demands.

Physical Port

ITS-6326-16P2TB-WV

- 16 x 10/100/1000BASE-T M12 ports (Ports 1 to 16) with IEEE 802.3at PoE+ injector function
- 2 x 10GBASE-T M12 ports (Ports 17 to 18) with bypass relay, backward compatible with 5G/2.5G/1GMbps data rate
- One M12 A-coded 5-pin male connector for USB data to RS232 console interface for basic management and setup
- One M12 A-coded 5-pin male connector with alarm, digital input and digital output functions
- One M23 A-coded 5-pin male connector with input voltage range of 24 to 110 VDC (Operating voltage: 16.8 to 137.5 VDC)

ITS-6326-16P2T-WV

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- One M12 A-coded 5-pin male connector for USB data to RS232 console interface for basic management and setup
- One M12 A-coded 5-pin male connector with alarm, digital input and digital output functions
- One M23 A-coded 5-pin male connector with input voltage range of 24 to 110 VDC (Operating voltage: 16.8 to 137.5 VDC)

Industrial Case and Installation

- IP40 metal case
- · Wall-mount design
- · Dual DC input
 - Overload current protection
 - Reverse polarity protection
- -40 to 70 degrees C operating temperature

Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus, end-span PSE
- Power up to 16 IEEE 802.3at devices.
- · Supports PoE power up to 36 watts for each PoE port.
- · Auto detects powered device (PD).
- Circuit protection prevents power interference between ports.
- Remote power feeding up to 100m in standard mode and 250m in extended mode



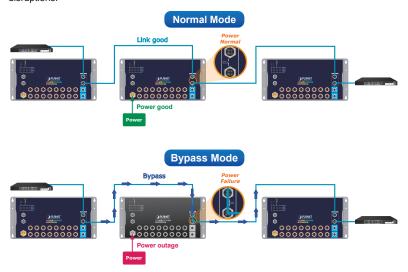
Each 10G M12 port supports four transmission speeds: **1GBASE-T**, **2.5GBASE-T**, **5GBASE-T**, **and 10GBASE-T**, offering administrators the flexibility to choose the appropriate speed for efficient network expansion. Engineered for reliability in challenging conditions, it serves as the ideal solution for railway on-board and trackside applications, as well as for vehicles and other demanding industrial environments.

High Power PoE for Security and Public Service Applications

As the whole system comes up to a total **100-watt PoE budget**, this series is designed specifically to fulfill the growing demand of higher power consuming network PDs (powered devices) such as multi-channel (802.11a/b/g/n) wireless LAN access points, PTZ (pan, tilt, zoom) speed dome network cameras and other PoE network devices.

Optional Bypass Relay Prevents Link Failure During Power Loss

The bypass relay is designed to bypass the failed switch to the next normal switch to prevent the network from power loss. Some models in this series support the bypass relay function on a pair of 10 Gigabit ports. When the switch is functioning normally, the 10 Gigabit ports operate like the other ports, processing and forwarding Ethernet packets. In the event of a power outage, the bypass relay ports ensure that network traffic continues to flow uninterrupted. Once power is restored and the switch has fully booted up, the system can revert to the normal mode, thus preventing further network disruptions.



Redundant Ring, Fast Recovery for Critical Network Applications

The ITS-6326 series supports redundant ring technology and features robust, rapid self-recovery capabilities to prevent interruptions and external intrusions. It incorporates advanced ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) technology, Spanning Tree Protocol (802.1s MSTP), and dual power input and an into customer's industrial automation network the customer's enhance system reliability and uptime in harsh factory environments. In a simple ring network, the recovery ring of data link can of the as fast as 10ms.

- · PoE management features
 - Total PoE power budget control
 - Per port PoE function enable/disable
 - PoE admin-mode control
 - PoE port power feeding priority
 - Per PoE port power limitation
 - PD classification detection
 - PoF extension
- · Intelligent PoE features
 - Temperature threshold control
 - PoE usage threshold control
 - PD alive check
 - PoE schedule
 - PD recycling schedule

Industrial Protocol

- · Modbus TCP for real-time monitoring in the SCADA system
- Supports IEEE 1588v2 PTP (Precision Time Protocol) transparent clock mode.

Digital Input and Digital Output

- One digital input (DI)
- One digital output (DO)
- · Integrate sensors into auto alarm system.
- Transfer alarm to IP network via SNMP trap.

Layer 3 IP Routing Features

- Supports maximum 128 static routes and route summarization
- IPv4 dynamic routing protocol supports RIPv2 and OSPFv2.
- IPv6 dynamic routing protocol supports OSPFv3.
- · IPv4/IPv6 hardware static routing
- · Routing interface provides per VLAN routing mode.

Layer 2 Features

- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex).
- High performance of Store-and-Forward architecture, and runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth.
- · Storm Control support
 - Broadcast/Multicast/Unicast
- Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - UP to 4K VLANs groups, out of 4094 VLAN IDs
 - Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
 - Private VLAN Edge (PVE)
 - Protocol-based VLAN
 - MAC-based VLAN
 - Voice VLAN
 - GVRP (GARP VLAN Registration Protocol)
- · Supports Spanning Tree Protocol





Cybersecurity Network Solution to Minimize Security Risks

Supporting SSHv2, TLS and SSL protocols to provide strong protection against advanced threats, it includes a range of cybersecurity features such as **DHCP Snooping**, **IP Source Guard**, **ARP Inspection** Protection, **802.1x port-based** and **MAC-based** network access control, RADIUS and TACACS+ user accounts management, SNMPv3 authentication, and so on to complement it as an all-security solution.



Layer 3 Routing Support

The ITS-6326 series empowers administrators to enhance network efficiency by manually configuring Layer 3 IPv4/IPv6 VLAN static routing or automatically setting up RIP (Routing Information Protocol) and OSPF (Open Shortest Path First). The RIP uses hop count as a routing metric and prevents routing loops by limiting the number of hops permitted in a path from source to destination. The OSPF, a dynamic interior routing protocol for autonomous systems, operates based on link-state information. It builds a link-state database through the exchange of link-state data among Layer 3 switches and applies the Shortest Path First algorithm to generate a route table from this database.

Robust Layer 2 Features

The ITS-6326 series can be programmed for advanced switch management functions such as dynamic port link aggregation, 802.1Q VLAN and Q-in-Q VLAN, Multiple Spanning Tree protocol (MSTP), loop and BPDU guard, IGMP snooping, and MLD snooping. Via the link aggregation, the ITS-6326 series allows the operation of a high-speed trunk to combine with multiple ports, and supports fail-over as well. Also, the Link Layer Discovery Protocol (LLDP) is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.



- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP), spanning tree by VLAN
- BPDU Guard
- Supports Link Aggregation
 - IEEE 802.3ad Link Aggregation Control Protocol (LACP)
 - Cisco ether-channel (Static Trunk)
 - Maximum 10 trunk groups with 20 ports per trunk group
 - Up to 8Gbps bandwidth (duplex mode)
- Provides port mirror (many-to-1)
- · Loop protection to avoid broadcast loops
- Supports ERPS (Ethernet Ring Protection Switching)
- Compatible with Cisco Uni-directional link detection (UDLD) that monitors a link between two switches and blocks the ports on both ends of the link if the link fails at any point between the two devices
- · Link Layer Discovery Protocol (LLDP)

Quality of Service

- Ingress Shaper and Egress Rate Limit per port bandwidth control
- · 8 priority queues on all switch ports
- Traffic classification
 - IEEE 802.1p CoS
 - IP TOS/DSCP/IP precedence
 - IP TCP/UDP port number
 - Typical network application
- Strict priority and Weighted Round Robin (WRR) CoS policies
- · Supports QoS and In/Out bandwidth control on each port
- · Traffic-policing on the switch port
- DSCP remarking

Multicast

- Supports IPv4 IGMP snooping v1, v2 and v3
- Supports IPv6 MLD snooping v1 and v2
- · Querier mode support
- IPv4 IGMP snooping port filtering
- IPv6 MLD snooping port filtering
- MVR (Multicast VLAN Registration)

Security

- · Storm Control support
 - Broadcast / Multicast / Unknown Unicast
- Authentication
- Built-in RADIUS client to co-operate with the RADIUS servers
- DHCP Option 82
- RADIUS/TACACS+ login user access authentication
- · Access Control List
 - IPv4/IPv6 IP-based ACL



User-friendly Management Interfaces

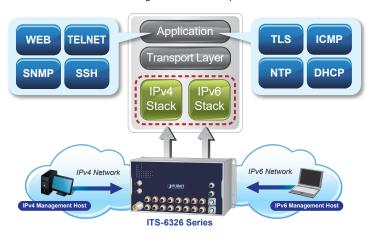
For efficient management, this series is equipped with **console**, **Web** and **SNMP** management interfaces.

- With the built-in Web-based management interface, the ITS-6326 series offers an easy-to-use, platform-independent management and configuration facility.
- For **text-based** management, the switches can be accessed via Telnet and the console port.
- For standard-based monitor and management software, it offers SNMPv3 connection which encrypts the packet content at each session for secure remote management.
- Moreover, the ITS-6326 PoE Series offers secure remote management by supporting SSHv2, TLSv1.2 and SNMP v3 connections which encrypt the packet content at each session.



IPv6/IPv4 Dual Stack Management

Supporting both IPv6 and IPv4 protocols, the ITS-6326 series helps the SMBs to step in the IPv6 era with the lowest investment as its network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.



Powerful Security

Offering comprehensive Layer 2 to Layer 4 Access Control List (ACL) features for enforcing security at the edge, it can restrict network access by denying packets based on source and destination IP addresses, TCP/UDP ports, or predefined typical network applications. Its protection mechanism also includes 802.1x port-based and MAC-based user and device authentication. With the private VLAN function, communication between edge ports is prevented, ensuring user privacy. Network administrators can now build highly secure corporate networks with significantly less time and effort than before.

- Pv4/IPv6 IP-based ACE
- MAC-based ACL
- MAC-based ACE
- MAC Security
 - Static MAC
 - MAC Filtering
- · Port Security for Source MAC address entries filtering
- · DHCP Snooping to filter distrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding.
- IP Source Guard prevents IP spoofing attacks.
- · DoS Attack Prevention

Management

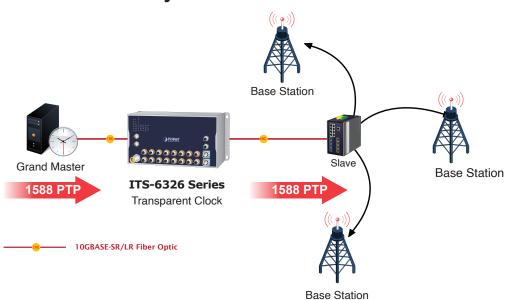
- · IPv4 and IPv6 dual stack management
- · Switch Management Interfaces
 - Console/Telnet Command Line Interface
 - Web switch management
 - SNMP v1 and v2c and v3 switch management
 - SSHv2, TLSv1.2 secure access
- SNMP Management
 - Four RMON groups (history, statistics, alarms, and events)
 - SNMP trap for interface Link Up and Link Down notification
- IPv6 IP address/NTP/DNS management
- Built-in Trivial File Transfer Protocol (TFTP) client
- · BOOTP and DHCP for IP address assignment
- · System Maintenance
 - Firmware upload/download via HTTP/TFTP
 - Reset button for system reboot or reset to factory default
 - Dual Images
- · DHCP Functions:
- DHCP Relay
- DHCP Option 82
- DHCP Server
- User Privilege levels control
- Network Time Protocol (NTP)
- Network Diagnostics
 - ICMPv6/ICMPv4 remote ping
 - Cable diagnostic technology provides the mechanism to detect and report potential cabling issues.
- PLANET NMS System and Smart Discovery Utility for deployment management
- SMTP/Syslog remote alarm
- · Event message logging to remote syslog server
- PLANET Smart Discovery Utility for deployment management
- Provides ONVIF for co-operating with PLANET video IP surveillances.
- PLANET NMS system and NMSViewerPro/CloudViewerPro app for deployment management.



1588 Time Protocol for Industrial Computing Networks

The ITS-6326 series is ideal for telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.

Time Synchronization in Network



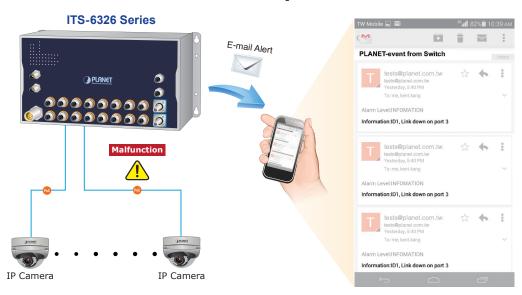
Modbus TCP Provides Flexible Network Connectivity for Factory Automation

With the supported Modbus TCP/IP protocol, the ITS-6326 series can easily integrate with **SCADA** systems, **HMI** systems and other data acquisition systems in factory floors. It enables administrators to remotely monitor the industrial Ethernet switch's **operating information**, **port information** and **communication status**, thus easily achieving enhanced monitoring and maintenance of the entire factory.

SMTP/SNMP Trap Event Alert

The ITS-6326 series provides event alert function to help to diagnose the abnormal device owing to whether or not there is a break of the network connection, or the rebooting response.

SMTP/SNMP Trap Event Alert





Convenient and Smart ONVIF Devices with Detection Feature

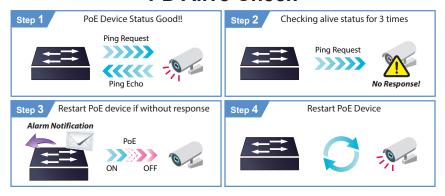
PLANET has newly developed an awesome feature -- ONVIF Support -- which is specifically designed for co-operating with video IP surveillances. From the ITS-6326 series GUI, clients just need one click to search and show all of the ONVIF devices via network application. In addition, clients can upload floor images to the switch series, making the deployments of surveillance and other devices easy for planning and inspection purposes. Moreover, clients can get real-time surveillance's information and online/offline status; the PoE reboot can be controlled from the GUI.



Intelligent Alive Check for Powered Device

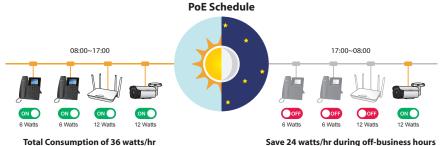
The ITS-6326 series can be configured to monitor connected PD (powered device) status in real time via ping action. Once the PD stops working and responding, the ITS-6326 Series will resume the PoE port power and bring the PD back to work. It will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing the administrator's management burden.

PD Alive Check



PoE Schedule for Energy Savings

In response to the global trend of energy conservation and environmental protection, the ITS-6326 series effectively manages power supply while delivering high wattage. The built-in "PoE schedule" function allows users to enable or disable PoE power feeding for each port during specified time intervals. This feature is particularly beneficial for small- to medium-sized businesses (SMBs) and enterprises, helping them save both energy and costs. The ITS-6326 series enables each connected PoE IP camera or PoE wireless access point to reboot at a designated time each week. This functionality helps minimize the risk of crashes caused by buffer overflow in IP cameras or access points.



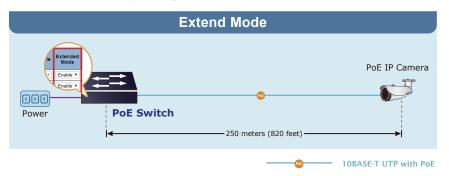
Total Consumption of 36 watts/hr





802.3at PoE+ Power and Ethernet Data Transmission Distance Extension

In the "Extend" operation mode, the ITS-6326 series functions on a per-port basis at 10 Mbps in duplex mode, while also supporting a 20-watt PoE output over distances of up to 250 meters, effectively surpassing the standard 100-meter limit of Ethernet UTP cables. This innovative feature offers an additional solution for extending the distance of 802.3at PoE, thereby reducing the costs associated with Ethernet cable installation.

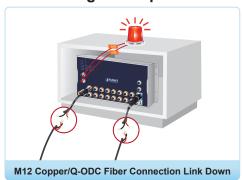


Digital Input and Digital Output for External Alarm

This external alarm system enables users to utilize a Digital Input to monitor and log the status of external devices, such as door intrusion detectors, and send event alarms to administrators. The Digital Output can be used to alarm administrators of any changes in link status, whether the link is down or up, on the ITS-6326 series port.



Digital Output

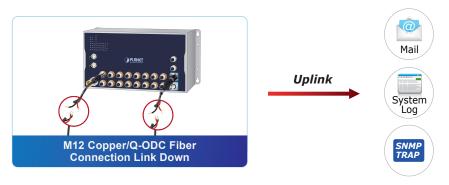




Effective Alarm Alert for Better Protection

The ITS-6326 series includes a Fault Alarm feature that promptly alerts users to any issues with the switches. This valuable functionality eliminates the need for users to spend time identifying the problem, resulting in significant savings in both time and human resources.

Fault Alarm Feature



Remote Management Solution

PLANET's **Universal Network Management System (UNI-NMS)**, **NMSViewerPro**, and **CloudViewerPro** applications offer comprehensive support for IT staff in effectively managing and monitoring all network devices, including the ITS-6326 series, from remote locations. Designed for deployment in both enterprise and industrial environments where the ITS-6326 series is used remotely, these systems facilitate the identification of bugs or faulty conditions without the necessity of on-site visits. With PLANET's Remote Management Solution, businesses of all types can now be managed swiftly and efficiently through a unified platform, enhancing operational oversight.

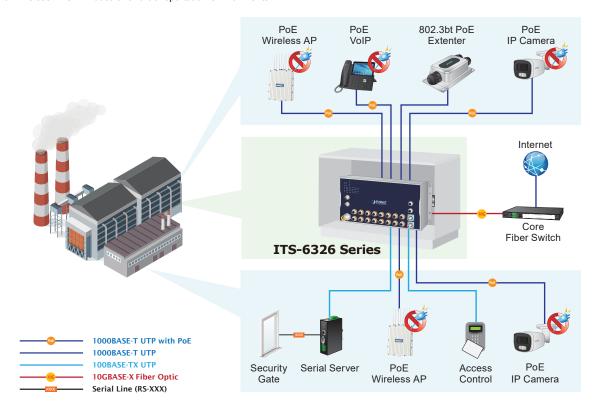


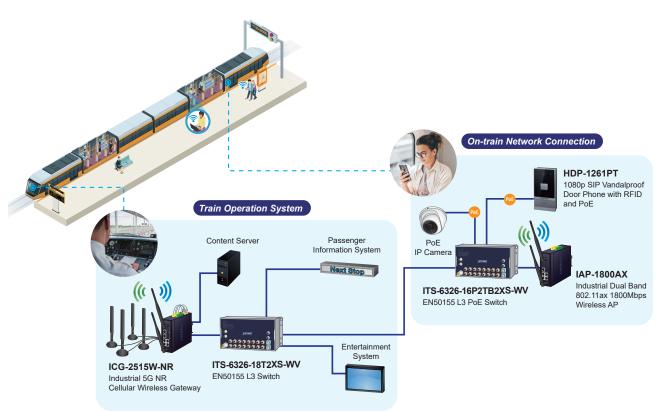


Applications

Designed for Industrial and Transportation Applications

Providing up to 16 PoE+ in-line power interfaces, the ITS-6326 series can easily build a power system to centrally control IP phone systems, IP camera systems, or wireless APs in industrial and transportation environments.

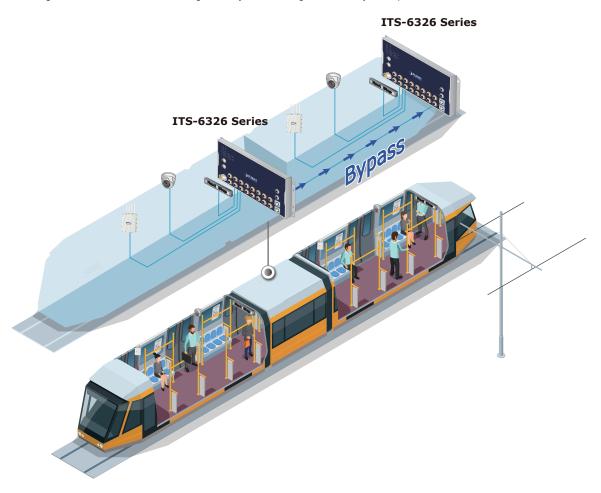






Bypass Relay Solution for Daisy Chain Topology

In a daisy chain topology, a single failed node can disrupt the links of other switches. In railway communication systems with interconnected networks, a failed upstream link in one train car will impact the downstream link in other train cars. To prevent such failures, the ITS-6326 series, equipped with a bypass function, offers two ports with a bypass relay feature. If one of the switches experiences a power loss, the other ports of the switch will bypass the failed relay circuit, allowing network traffic to continue flowing smoothly and ensuring continuous system operation.





Specifications

ITS-6326-16P2TB-WV	ITS-6326-16P2T-WV
16 x 10/100/1000BASE-T (Ports 1 to 16)	
	2 x 10GBASE-T (Ports 17 to 18)
-	Supports 10G/ 5G/ 2.5G/ 1G/ 100Mbps data rate
2 x 10GBASE-T (Ports 17 to 18)	
Supports 10G/5G/2.5G/1G/ 100Mbps data rate	-
16 ports with 802.3at PoE+ injector function (Ports	I to 16)
	,
> 5 sec.: Factory default	
1 x M12 A-coded 5-pin male connector for DI/DO an	d alarm interface
- Pin 1 for DI and Pin 2 for DO	
- Pin 3/4 for Alarm	
- Pin 5 for GND	
One relay output for port breakdown and power failu	re.
Alarm relay current carry ability: 1A @ 24V DC	
One digital input (DI)	
- Level 0: -24V~2.1V (±0.1V)	
- Level 1: 2.1V~24V (±0.1V)	
- Input load to 24V DC, 10mA max.	
2	
24 to 110 VDC	
16.8 to 137.5 VDC	
PWR1 (Green) PWR2 (Green) Alarm (Red) Ring (Green) R.O. (Green) I/O (Red) 10/100/1000T M12 PoE+ Port: Up: 1000 LNK/ACT (Green) 10/100 LNK/ACT (Amber) Down: PoE-in-Use (Amber) 100/1G/2.5G/5G/10GBASE-T M12 Port: Up: 1000 LNK/ACT (Green)	
100/10G LNK/ACT (Amber) Down: 2.5G/5G LNK/ACT (Amber) PoE Usage: 25W, 50W, 75W, 100W (Amber)	
Down: 2.5G/5G LNK/ACT (Amber) PoE Usage:	
Down: 2.5G/5G LNK/ACT (Amber) PoE Usage: 25W, 50W, 75W, 100W (Amber) IP40 aluminum case Wall-mount design	
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	16 x 10/100/1000BASE-T (Ports 1 to 16) - 2 x 10GBASE-T (Ports 17 to 18) Supports 10G/5G/2.5G/1G/ 100Mbps data rate 16 ports with 802.3at PoE+ injector function (Ports of USB Data to RS232 serial port (115200, 8, N, 1) 1 x M12 A-coded 5-pin male connector < 5 sec.: System reboot > 5 sec.: Factory default 1 x M12 A-coded 5-pin male connector for DI/DO an - Pin 1 for DI and Pin 2 for DO - Pin 3/4 for Alarm - Pin 5 for GND One relay output for port breakdown and power failure Alarm relay current carry ability: 1A @ 24V DC One digital input (DI) - Level 0: -24V~2.1V (±0.1V) - Level 1: 2.1V~24V (±0.1V) - Input load to 24V DC, 10mA max. One digital output (DO) - Open collector to 24V DC, 100mA max. 1 x M23 A-coded 5-pin male connector 2 24 to 110 VDC 16.8 to 137.5 VDC Max. 32.04 watts / 109.33 BTU (System on) Max. 39.57 watts / 135.02 BTU (Full loading) System: PWR1 (Green) Alarm (Red) Ring (Green) Alarm (Red) Ring (Green) R.O. (Green) I/O (Red) 10/100/1000T M12 PoE+ Port: Up: 1000 LNK/ACT (Green) 10/100 LNK/ACT (Green) 10/100/LNK/ACT (Amber) Down: PoE-in-Use (Amber) 100/1G/2.5G/5G/10GBASE-T M12 Port:



Sindard' Legacy Force POE Management POE Management POE Management POE Schedule POE	PoE Management Functions	
Scheduled Power Recycling Pos Schedule Pos Usage Monitoring Pos Extension Ves Boreau Pos Extension Ves Cally or predefined schedule Ves Centrolor Ves Centrolor Ves Cally or predefined schedule Ves Centrolor Ves Cent	Enhanced PoE Mode	Standard/ Legacy/ Force
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PoE Usage Monitoring PoE Extension Notice Poel Device Live Detection PoE Poeler Recycling You, daily or prodefined schedule PoE Poeler Recycling You daily or prodefined schedule Poeler Poeler Recycling Poeler Po		Scheduled Power Recycling
PoE Extension PoE Extension Vis Vis. daily or predefined schedule PoE Extension Vis. Power-Recycling Vis. daily or predefined schedule Power-Recycling Vis. daily or predefined schedule Power-Recycling Vis. daily or predefined schedule Power-Recycling Vis. daily or predefined Vis. Power-Recycling Vis.	PoE Management	PoE Schedule
Active PoE Device Live Detection Ves Poer Poer Recycling Ves daily or prodefined schedule Ves Checked Ves, max. up to 250 maters Worth Activities Worth Activities Worth Activities Worth Activities Worth Activities Store-and-forward Worth Activities Worth Activities Store-and-forward Worth Activities Back pressure for half duplex Wax 128 VLAN interfaces Max 128 VLAN interfaces Max 128 VLAN interfaces Max 46 HVV routing table entries Bry A transvare static routing Prof bandware static routing Prof Store Store Bry A store and static routing Prof Store Store Prof Store Store Prof Configuration Port Configuration Port disable/enable Auto-negotation 10 1/00/10/00/Mpps full and half duplex mode selection Flow control disable/enable Auto-negotation 10 1/00/10/00/Mpps full and half duplex mode selection Flow control disable/enable Poer samp mode control Fort Mirroring And Prof Store And Cond-based VLAN May Houters Apports Flee Roz 1 and Cain-Q lumenting Prival VLAN Eggi PVE) MAC-based VLAN May (Multicast VLAN Registration) GVR P. CARA PLAN Registration OVER P. CARA PLAN Registration Flee Roz 1 and LAPP-Static Trunk Supports - Static Poer Trucking, 20 ports 10 groups max.) Juname LaPP- VLAN Registration Poer Houters		PoE Usage Monitoring
Vice Flower Recycling Yes, daily or predefined schedule		PoE Extension
Note Schedule 4 schedule profiles ScE Extend Mode Yes, max. up to 250 meters Workch Architecture Store-and-forward Witch Fabric 72Coppshon blocking Witch Institute 53.5Mpps @548ytes Glories Table 53.5Mpps @548ytes Glories Table 32M bits Flore Control BEE 602.3x pause frame for full duplex Limbb Frame 10K Rytes Journal Of Frame 10K Rytes Journal Of Frame 10K Rytes Awar, 128 routing entries Max. 128 routing entries Max. 4K HW routing table entries Max. 4K HW routing table entries Routing Table Max. 128 routing entries Routing Protocols IPA Interval on State routing IPA Interval IPA Interval Auto-negotiation 10700/1000Mbps full and half duplex mode selection Port Configuration Port disablelenable Auto-negotiation 10700/1000Mbps full and half duplex mode selection Port Mirroring Port Status Port Mirroring Max 128 year hort's speed duplex mode, link status, flow control status, surink status Auto-negotiation 10700/1000Mbps full and hal	Active PoE Device Live Detection	Yes
Net Extend Mode Yes, max. up to 250 meters Weich Architecture Store- and-forward Switch Architecture Store- and-forward Switch Architecture Store- and-forward	PoE Power Recycling	Yes, daily or predefined schedule
Store- and-forward	PoE Schedule	4 schedule profiles
Since and-forward Winch Fabric 7205psnon-blocking Switch Throughput@48ytes 33.5Mpps @648ytes didress Table 10k entries, automatic source address learning and aging Marked Data Butler 32k Mist 32k M	PoE Extend Mode	Yes, max. up to 250 meters
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15K entries, automatic source address learning and aging shared Data Buffer 32M bits	Switch Fabric	72Gbps/non-blocking
Shared Data Buffer 32M bits	Switch Throughput@64Bytes	53.5Mpps @64Bytes
IBEE 802.3x pause frame for full duplex Back pressure for half duplex Iumbo Frame 10K Sytes Nax. 128 Functions Photofaces Max. 128 Touting entries Max. 4K H/W routing table entries Nouting Table Nouting Table Nouting Protocols IPv4 hardware static routing IPv6 DSFPx3 dynamic routing IPv6 DSFPx3 dynamic routing IPv6 OSFPx3 dynamic routing IPv6 Touting IPv6 SFPx3 dynamic routing IPv6 SFPx3 dynamic routing IPv6 SFPx3 dynamic routing IPv6 IPv6 IPv6 IPv6 IPv6 IPv6 IPv6 IPv6	Address Table	16K entries, automatic source address learning and aging
How Control Back pressure for half duplex without Frame 10K Bytes Wax. 128 VLAN interfaces Max. 128 VLAN interfaces Max. 128 routing entries Max. 4K H/W routing table entries Max. 4K H/W routing table entries Port Agnetic Protocols Port disable/enable Auto-negotiation 10/10/1000Mbps full and half duplex mode selection Flow control disable/enable Port Status Port Status Display each port's speed duplex mode, link status, flow control status, auto negotiation status, trunk status TX / RX / Both Many-to-1 monitor Ralfror - Remote Switched Port Analyzer (Cisco RSPAN) Supports up to 5 sessions IEEE 802-10 Iag-based VLAN Protocol-based VLAN Protocol-based VLAN Voice VLAN Voice VLAN Voice VLAN Voice VLAN Voice VLAN Registration Fiere Protocol GMP Snooping IP4 (SMP Snooping op to fillering duples in the Protocol (MSTP) BPDU Guard IP4 (SMP Snooping up to 255 multicast groups IP4 (SMP Snooping up to 255 multicast groups IP4 (SMP Snooping up to 255 multicast groups IP4 (SMP Gulfm with Registration) Wild (Multicast VLAN Registration) Wild (Multicast VLAN Registration) Wild (SMP (VI/VZ/NS) snooping, up to 255 multicast groups	Shared Data Buffer	32M bits
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- Dynamic LACP-(20 ports/10 groups max.) IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IPv4 IGMP (v1/v2/v3) snooping, up to 255 multicast groups IPv4 IGMP Snooping port filtering Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups		IEEE 802.3ad LACP/Static Trunk Supports
IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard	Link Aggregation	- Static Port Trucking, (20 ports/10 groups max.)
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IPv4 IGMP (v1/v2/v3) snooping, up to 255 multicast groups IPv4 IGMP Querier mode support IPv4 IGMP Snooping port filtering Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups		- Dynamic LACP-(20 ports/10 groups max.)
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IPv4 IGMP (v1/v2/v3) snooping, up to 255 multicast groups IPv4 IGMP querier mode support IPv4 IGMP Snooping port filtering Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups		
GMP Snooping IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) BPDU Guard IPv4 IGMP (v1/v2/v3) snooping, up to 255 multicast groups IPv4 IGMP querier mode support IPv4 IGMP Snooping port filtering Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups	Spanning Tree Protocol	
IPv4 IGMP (v1/v2/v3) snooping, up to 255 multicast groups IPv4 IGMP querier mode support IPv4 IGMP Snooping port filtering Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups	opaning from Foldoor	
IPv4 IGMP querier mode support IPv4 IGMP Snooping port filtering Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups		BPDU Guard
IPv4 IGMP Snooping IPv4 IGMP Snooping port filtering Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups		IPv4 IGMP (v1/v2/v3) snooping, up to 255 multicast groups
Multicast VLAN Registration IPv6 MLD (v1/v2) snooping, up to 255 multicast groups	IGMP Snooping	
IPv6 MLD (v1/v2) snooping, up to 255 multicast groups		
ALD Spooning		
IPv6 MLD querier mode support	MLD Snooping	
		ID AND COLORS



	Per port bandwidth control
Bandwidth Control	- Ingress: 500Kb~1000Mbps
	- Egress: 500Kb~1000Mbps
Ring	Support ERPS, complies with ITU-T G.8032v1 and v2
King	Recovery time < 50ms
	IEEE 1588v2 PTP (Precision Time Protocol)
Synchronization	- Peer-to-peer transparent clock
	- End-to-end transparent clock
	Traffic classification based, strict priority and WRR
	8-level priority for switching
QoS	- Port number
	- 802.1p priority
	- 802.1Q VLAN tag
0 " 5 "	- DSCP/TOS field in IP packet
Security Functions	ID become A COLUMN O become A COLUMN O
	IP-based ACL/MAC-based ACL
	ACL based on:
	- MAC Address
	- IP Address
Access Control List	- Ethertype
	- Protocol Type - VLAN ID
	- DSCP
	- 802.1p Priority
	Up to 512 entries
	Port security
	IP source guard, up to 512 entries
Security	Dynamic ARP inspection, up to 1K entries
,	Command line authority control based on user level
	Static MAC address, up to 64 entries
	RADIUS client
AAA	TACACS+ client
	IEEE 802.1x port-based network access control
Network Access Control	MAC-based authentication
	Local/RADIUS authentication
Management Functions	
Basic Management Interfaces	Console/ Telnet/ Web browser/ SNMP v1, v2c
Secure Management Interfaces	SSHv2, TLS v1.2, SNMP v3
	Firmware upgrade by HTTP/TFTP protocol through Ethernet network
	LLDP protocol
System Management	NTP
	PLANET Smart Discovery Utility
	PLANET NMS System, NMSViewerPro and CloudViewerPro App
Event Management	Remote Syslog
Event Management	System log
	CMTD
	SMTP
ONIVIE	ONVIF device discovery
ONVIF	ONVIF device discovery ONVIF device monitoring
ONVIF	ONVIF device discovery ONVIF device monitoring Floor map
ONVIF	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II
ONVIF	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB
ONVIF	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB
ONVIF	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB
ONVIF	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB
ONVIF	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB
	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB
ONVIF SNMP MIBs	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)
	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB
	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2618 RADIUS Client MIB
	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2933 IGMP-STD-MIB RFC 2931 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB RFC 4836 MAU-MIB
	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB RFC 4836 MAU-MIB IEEE 802.1X PAE
	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2933 IGMP-STD-MIB RFC 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB RFC 4836 MAU-MIB IEEE 802.1X PAE LLDP
	ONVIF device discovery ONVIF device monitoring Floor map RFC 1213 MIB-II RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2737 Entity MIB RFC 2933 IGMP-STD-MIB RFC 3411 SNMP-Frameworks-MIB RFC 4836 MAU-MIB IEEE 802.1X PAE



Ctandarda Canformanas	
Standards Conformance	500 P. 145 Ok. A
Regulatory Compliance EMI & EMS	FCC Part 15 Class A Planning: CE: EN 55032, EN 55035
Stability Testing	EN 61000-6-2, EN 61000-6-4 IEC60068-2-32 (free fall) IEC60068-2-6 (vibration) Planning: IEC 61373, EN 50155 (Shock) IEC 61373, EN 50155 (Vibration)
Railway (Planning)	EN 50155, EN50121-4, IEC 60571
Railway Fire Protection (Planning)	EN 45545-2
Standards Compliance	IEEE 802.3u 100BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000T IEEE 802.3ab Gigabit 1000T IEEE 802.3ab 10GBASE-T IEEE 802.3bc 2.5/5GBASE-T IEEE 802.3bc 2.5/5GBASE-T IEEE 802.3ad port trunk with LACP IEEE 802.3d port trunk with LACP IEEE 802.1b Spanning Tree Protocol IEEE 802.1b Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1c Class of Service IEEE 802.1d Class of Service IEEE 802.1d VLAN tagging IEEE 802.1ad Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ab CPAM IEEE 802.3ab CPAM IEEE 802.3ab CAM IEEE 802.3ac Connectivity Fault Management(CFM) IEEE 802.3ac Energy Efficient Ethernet (EEE) IEEE 1588 PTPv2 RFC 768 UDP RFC 783 TFTP RFC 719 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2266 IGMP v2 RFC 3376 IGMP version 3 RFC 2710 MLD version 1 RFC 3810 MLD version 2 ITU G.8032 ERPS Ring ITU-T Y.1731 Performance Monitoring
	ITU-T Y.1731 Performance Monitoring
Environment	
Operating	Temperature: -40 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -40 ~ 85 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

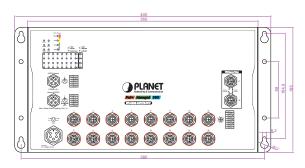


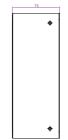
Dimensions

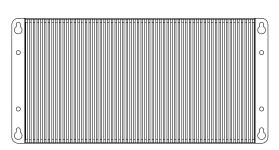
■ ITS-6326-16P2TB-WV







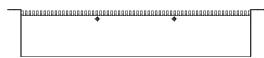




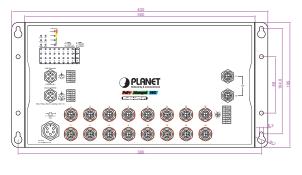


Dimensions (W x D x H): 400 x 74 x 195 mm

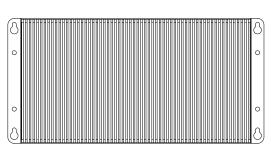
■ ITS-6326-16P2T-WV

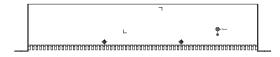












Dimensions (W x D x H): 400 x 74 x 195 mm

Ordering Information

ITS-6326-16P2TB-WV	Industrial L3 16-Port 10/100/1000T 802.3at PoE+ M12 + 2-Port 10GBASE-T M12 Bypass Managed Ethernet Switch with dual wide voltage input of 24 to 110 VDC.
ITS-6326-16P2T-WV	Industrial L3 16-Port 10/100/1000T 802.3at PoE+ M12 + 2-Port 10GBASE-T M12 Managed Ethernet Switch with dual wide voltage input of 24 to 110 VDC.



Accessories

CB-M12A5USB-100	5 Pin A-Coded M12 Female to USB Type-A Cable, 1 meters
CB-M12A5FF-120	5-Pin A-Coded M12 Female to bare end power or I/O cable, 1.2 meters
CB-M12X8MRJ-200	8-Pin X-Coded M12 Male to RJ45 Ethernet Cable, 2 meters
CB-M12X8M10G-200	8-Pin X-Coded M12 Male to RJ45 Ethernet Cat 6A (10G) Cable, 2 meters
CB-M23F5F-120	5-Pin M23 Female to bare end power cable, 1.2 meters

Related Products

ITS-6326-16P2TB2XS-WV	Industrial L3 16-Port 10/100/1000T 802.3at PoE+ M12 + 2-Port 10GBASE-T M12 Bypass + 2-Port 10G Q-ODC
	Managed Ethernet Switch with dual wide voltage input of 24 to 110 VDC.
ITS-6326-16P2T2XS-WV	Industrial L3 16-Port 10/100/1000T 802.3at PoE+ M12 + 2-Port 10GBASE-T M12 + 2-Port 10G Q-ODC Managed
	Ethernet Switch with dual wide voltage input of 24 to 110 VDC.
ITS-6326-8P10T2XS-WV	Industrial L3 8-Port 10/100/1000T 802.3at PoE+ M12 + 8-Port 10/100/1000T M12 + 2-Port 10GBASE-T M12 +
	2-Port 10G Q-ODC Managed Ethernet Switch with dual wide voltage input of 24 to 110 VDC.
ITS-6326-16P-WV	Industrial L3 16-Port 10/100/1000T 802.3at PoE+ M12 Managed Ethernet Switch with dual
	wide voltage input of 24 to 110 VDC.
ITS-6326-16P-LV	Industrial L3 16-Port 10/100/1000T 802.3at PoE+ M12 Managed Ethernet Switch with dual voltage input of 24 to
115-0320-10P-LV	54 VDC.
ITS-6326-8P8T-WV	Industrial L3 8-Port 10/100/1000T 802.3at PoE+ M12 + 8-Port 10/100/1000T M12 Managed Ethernet Switch with
115-0320-0P01-VV V	dual wide voltage input of 24 to 110 VDC.
ITO COOC ODOT IV	Industrial L3 8-Port 10/100/1000T 802.3at PoE+ M12 + 8-Port 10/100/1000T M12 Managed Ethernet Switch with
ITS-6326-8P8T-LV	dual voltage input of 24 to 54 VDC.
ITO 0200 40T0VO W/V	Industrial L3 16-Port 10/100/1000T M12 + 2-Port 10GBASE-T M12 + 2-Port 10G Q-ODC Managed Ethernet
ITS-6326-18T2XS-WV	Switch with dual wide voltage input of 24 to 110 VDC.
ITS-6326-16T-WV	Industrial L3 16-Port 10/100/1000T M12 Managed Ethernet Switch with dual wide voltage input of 24 to 110 VDC.
ITS-6326-16T-LV	Industrial L3 16-Port 10/100/1000T M12 Managed Ethernet Switch with dual voltage input of 24 to 54 VDC.

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