

2(1)-Port 10G/2.5G/1G/100BASE-X SFP+ + 1-Port 10GBASE-T Managed Media Converter



XT-905A/XT-915A/XT-925A

Ultra-Fast Connections and Easy Management

PLANET XT-900 series high-performance media converter improves network connectivity and provides sophisticated management capabilities. It is **the first 10Gbps media converter** in the industry with **standalone secure management**, making it **the best option for enterprise and telecom remote management and monitoring**. The XT-900 series allows for remote management via an intuitive web interface, command line interface (CLI) and SNMP protocol, enabling easy monitoring and configuration of the converter from anywhere.

Our cutting-edge converter features one 10GBASE-T copper port and two 10G SFP+ ports, providing ultra-fast connectivity for devices with RJ45 interfaces as well as greater flexibility in fiber-optic cabling options. This powerful yet compact solution makes it the ideal choice for businesses looking to boost their network speed and functionality.



10GBASE-T and 10GBASE-X SFP+ Dual Media Interfaces for Diversified Bandwidth Applications

The XT-900 series can reach speeds of up to 10Gbps over copper or fiber-optic cabling, greatly improving the performance of large data transmissions. Its built-in 10GBASE-T copper interfaces feature 5-speed auto-negotiation (10G/5G/2.5G/1G/100) and can transmit data at 10Gbps over the existing Cat6A/Cat7 UTP cabling, eliminating the need for expensive upgrades. With its Plug and Play design, installation is easy and hassle-free, so you can enjoy the speed you need without any extra effort.

Physical Port

- One 10G/5G/2.5G/1G/100BASE-T RJ45 interface with auto MDI/MDI-X function
- Two 10G/2.5G/1G/100BASE-X SFP+ interfaces

Layer 2 Features

- · Storm Control support
 - Broadcast / Multicast / Unknown Unicast
- · Supports VLAN
 - IEEE 802.1Q tagged VLAN
 - Supports provider bridging (VLAN Q-in-Q, IEEE 802.1ad)
 - Up to 256 VLAN groups, out of 4096 VLAN IDs
- Supports ITU-T G.8032 ERPS ring with recovery time less than 500ms
- · Link Layer Discovery Protocol (LLDP)
- 16K MAC address table with auto-aging
- Jumbo Frame support up to 12Kbytes in size

Quality of Service

- Ingress Shaper and Egress Rate Limit per port bandwidth control
- · 8 priority queues on all converter ports
- Strict priority and Weighted Round Robin (WRR) CoS policies
- Traffic classification
 - IEEE 802.1p CoS
 - IP TOS / DSCP / IP Precedence
 - IP TCP/UDP port number
 - Typical network application

Management

- IPv4 and IPv6 dual stack management
- · Support Link Fault Pass-through
- · Management Interfaces
 - Web HTTP/HTTPS management
 - Telnet Command Line Interface
 - SNMP v1, v2c, v3 monitoring
 - SSHv2, TLSv1.2
- · System Maintenance
 - Firmware upload/download via HTTP
 - Reset button for system reboot or reset to factory default
 - Dual images
- · Simple Network Time Protocol (SNTP)
- · User privilege levels control
- SNMP Management
 - SNMP trap for interface link up and link down notification





Two Fiber Optic Ports Double the Distance of Deployment

Conventional media converters typically support only a single pair of different media conversions, such as converting one fiber to one copper connection. They can extend a 100m copper connection to a maximum of 80km fiber optic connection. In contrast, the XT-915A/XT-925A has two fiber optic ports and one copper port, enabling the two fiber optic cables to connect to devices up to 160km apart so as to significantly extend the deployment distance.

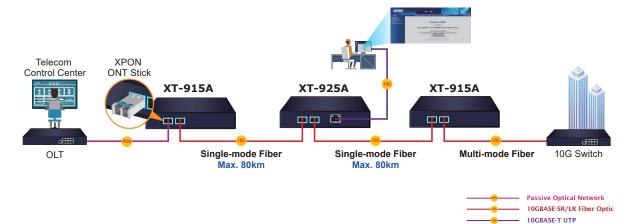
- Four RMON groups (history, statistics, alarms and events)
- · Network Diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
- Syslog remote alarm
- · Local system Log
- ICMPv6 / ICMPv4 remote ping
- PLANET Smart Discovery Utility for deploy management
- PLANET Remote Management
 - PLANET NMS Controller and CloudViewer app for deployment management

Security

- IP address access management to prevent unauthorized intruder
- · Static MAC setting and MAC Filtering
- Protected ports (XT-925A only)

Case and Installation

- · External 12VDC, 1.5A power adapter
- 0 to 50 degrees C operating temperature
- Supports 4KVDC Contact/8KVDC Air Ethernet ESD protection
- Wall-mount and DIN-rail installation (optional)



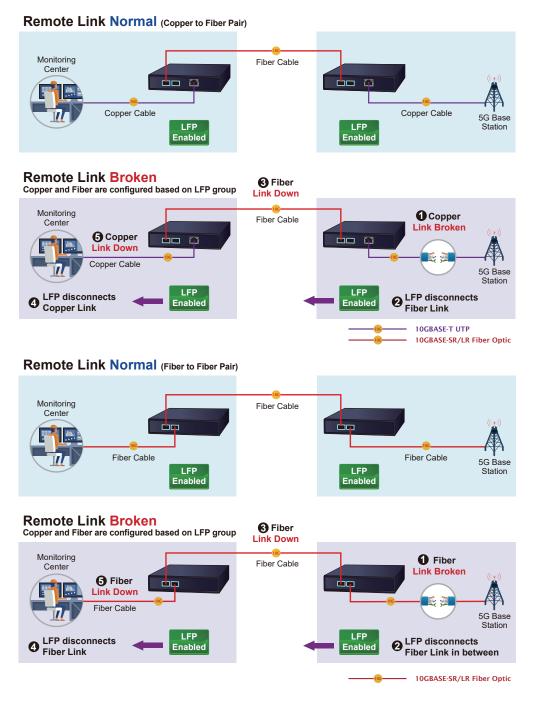
Link Fault Pass-through

Link Fault Pass-through is a networking feature. It facilitates the detection and propagation of link faults or errors from one network device to another. It helps maintain network reliability and minimizes downtime by allowing devices to dynamically respond to link faults. Link Fault Pass-through improves fault detection and enables faster troubleshooting and resolution processes.

How it works:

- When a link fault occurs, the device experiencing the fault generates a notification.
- This notification is then forwarded to other connected devices using Link Fault Pass-through.
- Upon receiving the link fault information, the connected devices become aware of the fault.
- This awareness enables them to take appropriate actions, such as rerouting traffic or disabling the affected port.





Network with Cybersecurity Helps Minimize Risks

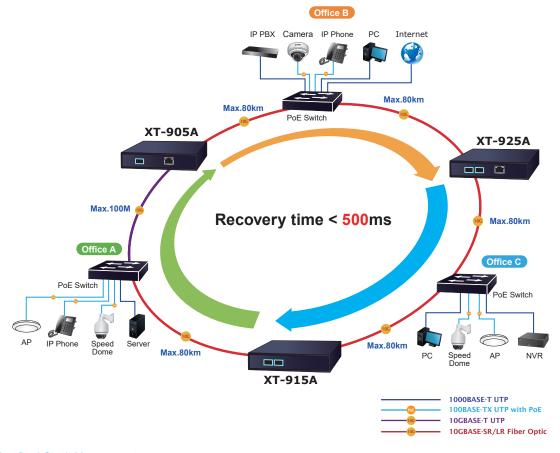
The XT-900 series is equipped with enhanced cybersecurity features to fend off cyber threats and attacks. It supports SSHv2, TLSv1.2, and SNMPv3 protocols to provide strong protection against advanced threats. As a key point for transmitting data to a customer's critical equipment in a business network, the XT-900 series cybersecurity feature protects network management and enhances the security of mission-critical networks without incurring any additional deployment cost or effort.





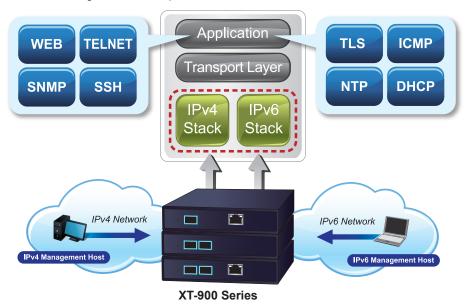
Redundant Ring, Fast Recovery for Critical Network Applications

The XT-900 series supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruption and external intrusions. It incorporates advanced ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) technology, ensuring rapid self-recovery in ring networks. With this advanced feature, the data link recovery time can be as fast as 500ms.



IPv6/IPv4 Dual Stack Management

Supporting both IPv6 and IPv4 protocols, the XT-900 series help the SMBs to step in the IPv6 era with the lowest investment as their network facilities need not be replaced or overhauled if the IPv6 FTTx edge network is set up.



SNMP for Comprehensive Network Monitoring and Centralized Control

SNMP (Simple Network Management Protocol) provides network monitoring and management capabilities by gathering real-time information about network devices. By proactively identifying and addressing network issues, reliability and performance are improved. SNMP also facilitates centralized control of network devices, allowing for monitoring and configuration of multiple devices from a single location, reducing manual effort and enhancing operational efficiency.



Layer 2 Features

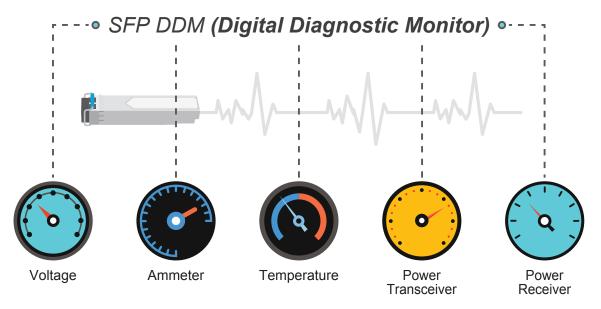
The device has a 16K-entry MAC address table that automatically removes inactive addresses. Its backbone supports speeds of up to 40Gbps, and it can handle Jumbo Frames up to 12Kbytes in size. The device is equipped with Storm Control to manage Broadcast/Multicast/Unknown-Unicast traffic, and features an IPv6 MAC/VLAN/Multicast Address Table and Loop Protection.

Efficient Traffic Control

The XT-900 series media converter boasts advanced QoS features and robust traffic management capabilities, optimizing the delivery of business-class data, voice, and video solutions. Its feature set includes broadcast/multicast/unicast storm control, per-port bandwidth control, and 802.1p CoS/DSCP/IP Precedence QoS priority and remarking. These capabilities guarantee optimal performance for VoIP and video stream transmission, maximizing the utilization of limited network resources for enterprises

Intelligent SFP Diagnosis Mechanism

The XT-900 series supports the SFP-DDM (digital diagnostic monitor) function, which greatly helps network administrators easily monitor real-time parameters of the SFP transceivers. These parameters include optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.



Remote Management Solution

PLANET's Universal Network Management System (**UNI-NMS**) and CloudViewer app support IT staff in remotely managing all network devices and monitoring the operation statuses of XT-900 series. These systems are designed for both enterprises and industries where the deployments of the XT-900 series can be remote. This allows bugs or faulty conditions to be found without having to go to the actual location. With UNI-NMS or CloudViewer app, all kinds of businesses can now be speedily and efficiently managed from one platform.

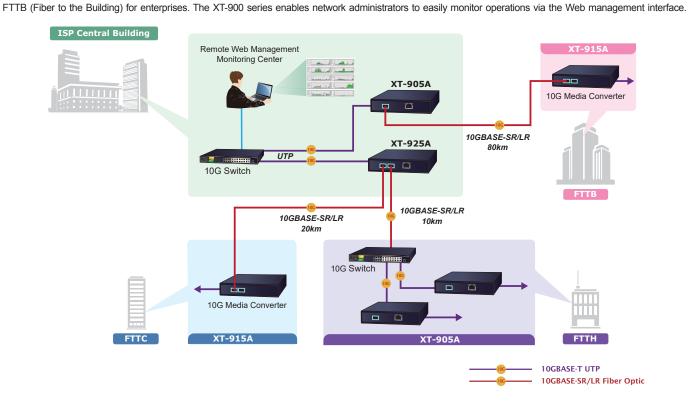




Applications

Fiber-optic Networking for ISPs, Enterprises and Homes

With high-speed data transmission and easy installation, the XT-900 series can build FTTH (Fiber to the Home) and FTTC (Fiber to the Curb) for ISPs, and



Specifications

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Model	XT-905A	XT-915A	XT-925A	
Hardware Specifications				
Copper Interface	1x 10G/5G/2.5G/1G/100BASE-T RJ45		1x 10G/5G/2.5G/1G/100BASE-T RJ45	
Copper interface	interface with auto MDI/MDI-X function interface with au	interface with auto MDI/MDI-X function		
	1x	2x	2x	
Fiber Interface	10G/2.5G/1G/100BASE-X SFP+	10G/2.5G/1G/100BASE-X SFP+	10G/2.5G/1G/100BASE-X SFP+	
	interface	interface	interface	
Reset Button	< 5 sec.: System reboot			
	> 5 sec.: Factory default	> 5 sec.: Factory default		
ESD Protection	4KVDC Contact / 8KVDC Air			
Enclosure	Compact-sized metal case			
Installation	Wall-mount kit and DIN-rail kit installatio	n (optional)		
Dimensions (W x D x H)	135 x 87.8 x 32mm	135 x 87.8 x 32mm		
Weight	429g (device only)	407g (device only)	437g (device only)	
Power Requirement	DC 12V, 1.5A, external power adapter			
Power Consumption (XT-925A)	3.24 watts/11.06 BTU/hr (No loading) / 1	12.5 watts/42.65 BTU/hr (Full loading)		
	System:			
	PWR, (Green)	PWR, (Green)		
	Per 10GBASE-T RJ45 Port:			
	1G/100 LINK/ACT (Green)			
LED Indicator	2.5G/5G LINK/ACT (Green)			
	10G LINK/ACT (Amber)			
	Per 10GBASE-X SFP+ Port:			
	1G LINK/ACT (Green)			
	2.5G LINK/ACT (Green)			
	10G LINK/ACT (Amber)			
Transmission Specifications				
Processing Scheme	Store and Forward			
Fabric	40Gbps	40Gbps	60Gbps	
	29.76Mpps@64bytes			



Address Table	40V antice automatic accuracy address less than	
Address Table	16K entries, automatic source address learning and aging	
Flow Control	Back pressure for half duplex	
	IEEE 802.3x pause frame for full duplex	
Jumbo Frame	12Kbytes	
Shared Buffer	12Mbits	
Layer 2 Function		
	Port disable/enable	
Port Configuration	Auto-negotiation 100Mbps, 1/2.5/5/10Gbps full and half duplex mode selection	
	Flow control disable/enable	
Port Status	Display each port's link status, speed, auto-negotiation status, duplex mode, flow control status	
VLAN	IEEE 802.1Q tag-based VLAN	
	IEEE 802.1ad Q-in-Q tunneling	
	Up to 256 VLAN groups, out of 4096 VLAN IDs	
	Per port bandwidth control	
Bandwidth Control	Ingress: 16~10,000,000Kbps	
	Egress: 16~10,000,000Kbps	
	Traffic classification based, strict priority and WRR	
	8-level priority for switching	
QoS	Traffic classification:	
	- Cos/802.1p	
	- DSCP	
	- IP Precedence	
Ring	Supports ERPS, and complies with ITU-T G.8032	
	Recovery time < 500ms	
Security Function		
Access Security	Remote management protocols support: SSH, Telnet, HTTP and HTTPs	
	Protected ports (XT-925A only)	
System Management		
Basic Management Interfaces	Telnet, Web browser, SNMP v1, v2c	
Secure Management Interfaces	SSHv2, TLS v1.2, SNMP v3	
	Firmware upgrade by HTTP protocol through Ethernet network	
	Configuration upload/download through HTTP	
System Management	LLDP protocol SNTP	
	PLANET Smart Discovery Utility	
	PLANET NMS Controller and PLANET CloudViewer mobile app	
Event Management	Remote syslog Local system log	
Event Management	SNMP trap	
	Очин пар	
	RFC 1213 MIB-II	
	RFC 2863 IF-MIB	
	RFC 2863 IF-MIB RFC 1493 Bridge MIB	
	RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB	
CNIMP AUD-	RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB	
SNMP MIBs	RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB	
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SNMP MIBs	RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB RFC 2737 Entity MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)	
SNMP MIBs	RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB RFC 2737 Entity MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 3411 SNMP-Frameworks-MIB	
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Standards Conformance	RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2665 Ether-Like MIB RFC 2737 Entity MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 3411 SNMP-Frameworks-MIB LLDP MAU-MIB	
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Standards Conformance Regulatory Compliance	RFC 2863 IF-MIB RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2863 Interface MIB RFC 2865 Ether-Like MIB RFC 2737 Entity MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 3411 SNMP-Frameworks-MIB LLDP MAU-MIB FCC Part 15 Class A, CE Class A IEC60068-2-32 (free fall)	
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	IEEE 802.3u, 100BASE-TX/FX
	IEEE 802.3ab, 1000BASE-T
	IEEE 802.3bz, 2.5G/5GBASE-T
	IEEE 802.3an, 10GBASE-T
	IEEE 802.3z, 1000BASE-SX/LX
	IEEE 802.3ae 10GBASE-SR/LR
	IEEE 802.3x full-duplex flow control
	IEEE 802.1p Class of Service
Standards Compliance	IEEE 802.1Q VLAN tagging
	IEEE 802.1ad Q-in-Q VLAN stacking
	IEEE 802.1ab LLDP
	RFC 768 UDP
	RFC 2474 DSCP
	RFC 791 IP
	RFC 792 ICMP
	RFC 2068 HTTP
	ITU-T G.8032 ERPS Ring
Environment	
Operating	Temperature: 0 ~ 50 degrees C
	Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C
	Relative Humidity: 5 ~ 95% (non-condensing)

Ordering Information

XT-905A	1-Port 10G/5G/2.5G/1G/100BASE-T + 1-Port 10G/2.5G/1G/100BASE-X SFP+ Managed Media Converter
XT-915A	2-Port 10G/2.5G/1G/100BASE-X SFP+ Managed Media Converter
XT-925A	1-Port 10G/5G/2.5G/1G/100BASE-T + 2-Port 10G/2.5G/1G/100BASE-X SFP+ Managed Media Converter

Related Products

XT-705A	10G/5G/2.5G/1G/100M Copper to 10GBASE-X SFP+ Media Converter
IXT-705A	Industrial 10G/5G/2.5G/1G/100M Copper to 10GBASE-X SFP+ Media Converter

Available 10Gbps Modules for XT-925A Series

CB-DASFP-0.5/2M	10G SFP+ Directly-attached Copper Cable (0.5/2M in length)
MFB-Series Transceiver	100BASE-FX SFP Transceiver
MGB-Series Transceiver	1000BASE-SX/LX SFP Transceiver
MGB-2GSeries Transceiver	2500BASE-X SFP Transceiver
MTB-Series Module	10GBASE-LR/SR/BX/T Modules

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XT-900 series