

ESH-2109 Series CPE Switch



8 ports 10/100Mbps RJ-45 + 1 port 100Mbps fiber optics uplink Managed Ethernet CPE Switch

Features

- **Easy To Install And Use**
With Auto-MDI/MDI-X and 10/100Mbps auto-senses support. If network device connected to the CPE Switch is never need crossover cables and adjusts running at 10Mbps or 100Mbps speed
- **Support IGMP Snooping V1/V2**
IGMP snooping to quickly deploy IPTV service
- **Support Q-in-Q VLAN**
With Q-in-Q VLAN stacking, the service providers can transport the encapsulated traffic for different customers without security risk
- **DHCP Auto-Provision**
Fulfill the deployment requirement and reduce the OPEX of device maintenance for service providers or operators
- **SNMP Power down trap**
Popular SNMP trap message to rapidly identify network fault due to power outage and reduce truck rollls to save OPEX for service providers
- **Built-in Cable Tray**
Keep excessive fiber inside the box. Save extra cost of buying a separate cable tray as well as saving installation space

Target Applications

- SOHO & Residential CPE switch which requires network management for FTTX service deployment

Description

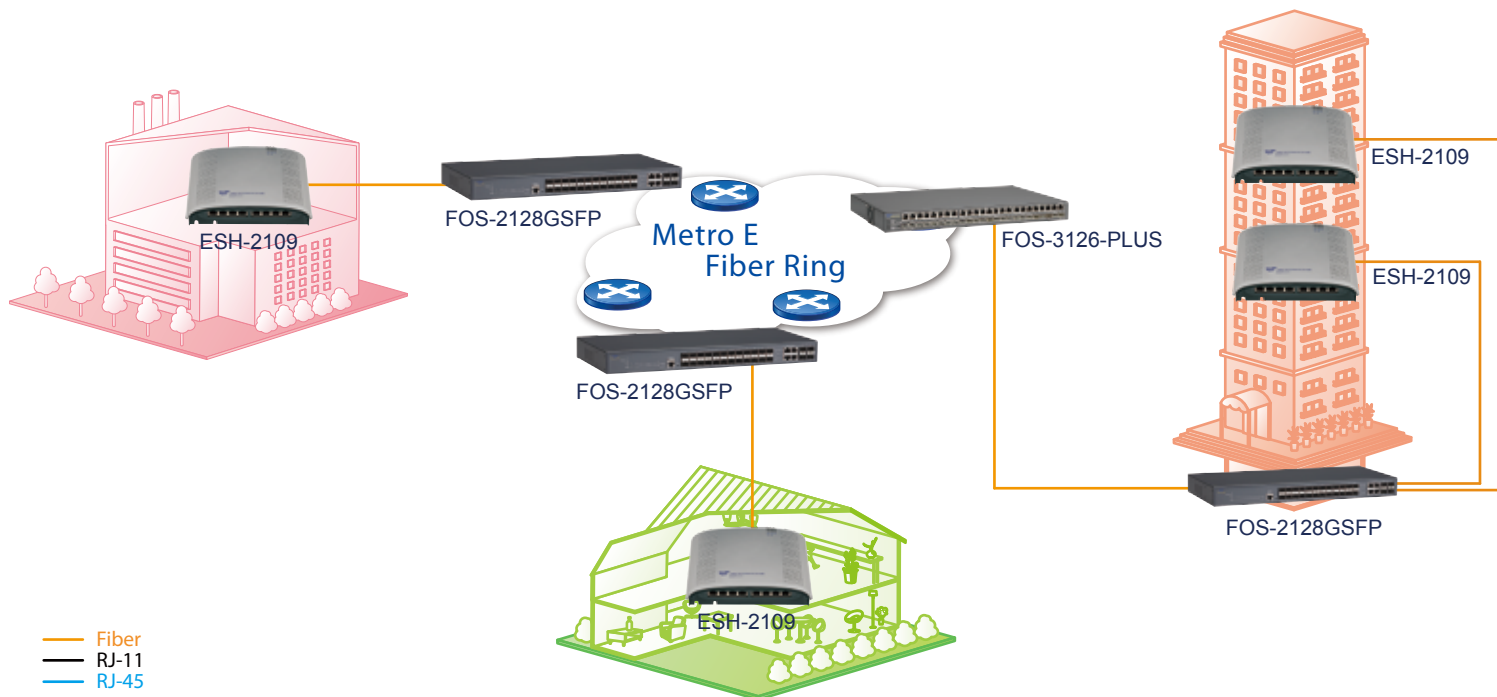
Connection Technology Systems (CTS) ESH-2109 series CPE Switch are the Fast Ethernet 10/100Base-TX to 100Base-FX CPE Switch within an eye-catching elegant shaping box, plus a built-in cable tray. Often, the fiber is intentionally left longer than it actually needs. With the built-in cable tray, it allows users to enclose the excessive fiber within the box, providing extra protection for the sensitive fiber.

The ESH-2109 series CPE Switch traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, SC/ST connector, bi-directional WDM fiber transceiver. The traditional transmission distance of 100m over RJ-45 copper can be extended from 2km to 100km over fiber.

ESH-2109 series CPE Switch is fully compliant with IEEE 802.3 & 802.3u standards. You can connect another switch or NIC through ESH-2109 series CPE switch 10/100Base-TX twisted-part RJ-45 port without crossover cables and monitor the status through comprehensive LED display.

ESH-2109 series CPE Switch can be easily managed by web interface, telnet, SNMP, and DHCP auto-provision. With CTS unique Power Down Trap feature, ESH-2109 is able to send out a SNMP trap message when encountering power outage.

Application Diagram



— Fiber
— RJ-11
— RJ-45

Specification

Interface

LAN Port
10/100Base-TX RJ45 x 8
100Base-FX x 1
RJ-45 DB-9 console x 1

Standards

IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/FX
IEEE 802.3x Flow Control
IEEE 802.1q Tag VLAN
IEEE 802.1p Priority
IEEE 802.1d Spanning Tree Protocol

Product Specification

Store and forward switching mechanism
Auto-Cross over for MDI/MDI-X in TP port
Auto-Negotiation in TP port
Full/Half Duplex Mode Operation
2K MAC address table
128K bytes memory buffer

Switch Feature

IGMP snooping V1/V2
Bandwidth Control
Port Based VLAN
Tag VLAN
Q-in-Q VLAN
VLANs: Support to 128 VLAN Groups
Priority Queues: 4 Queues

Management feature

WEB / SNMP / Telnet interface
Storm Control
FTP/TFTP Firmware update
DHCP Clinet
DHCP Auto-Provision
Radius Authentication
SNTP time server
Power Down Trap

LED

Speed, Link/Act, LAN, Power, WAN, Status

Power Requirement

Power adaptor
- AC input: 100VAC~240VAC
- Frequency range: 50~60Hz
- DC output: 12V, 1.5A
Power consumption
- AC side: 9W
- DC side: 6.75W

Environmental Condition

Operation: 0° ~ 50°C
Storage temperature: -20° ~ 60°C
Humidity: 5% ~ 90% non-condensing

Dimension & Weight

Size: 210x 147 x 53 mm (WxDxH)
Shipping Weight: 1.2 KG

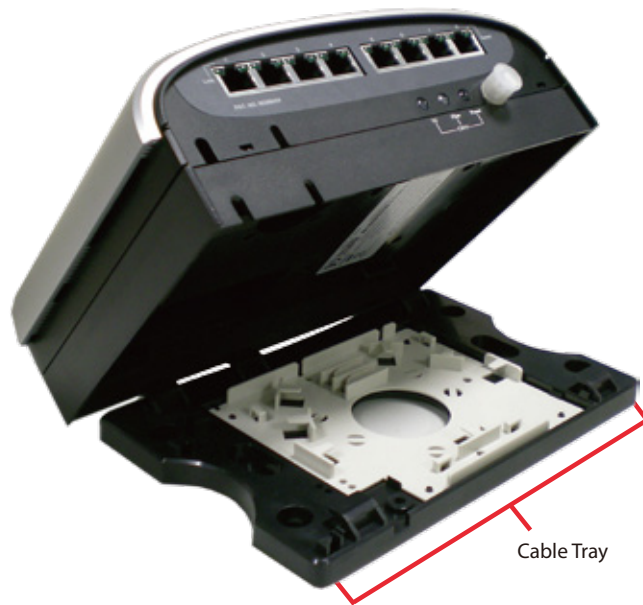
EMC/Safety

FCC class A,
CE
* For further reports, please contact us for update

Order Information

MODEL	FIBER PORT					TP PORT		SUPPORT POWER SOURCE
	Speed	Type	Connector	Distance	Ports	Speed	Ports	Power Type
ESH-2109FC	100	MM	SC	2KM	1	10/100	8	External Power adapter
ESH-2109FT	100	MM	ST	2KM	1	10/100	8	External Power adapter
ESH-2109FC(SM-30/50/80/100)	100	SM	SC	30/50/80/100KM	1	10/100	8	External Power adapter
ESH-2109W2A(SM-20/40)	100	WDM	SC	20/40KM	1	10/100	8	External Power adapter
ESH-2109W2B(SM-20/40)	100	WDM	SC	20/40KM	1	10/100	8	External Power adapter

Built-in Cable Tray Overview



* This is an overview of CTS ESH series and does not represent specific product details.