

## ESH-2106 Series CPE Switch



5 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 trape**  
Popular SNMP trap message to rapidly identify network fault due to power outage and reduce truck rollys 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

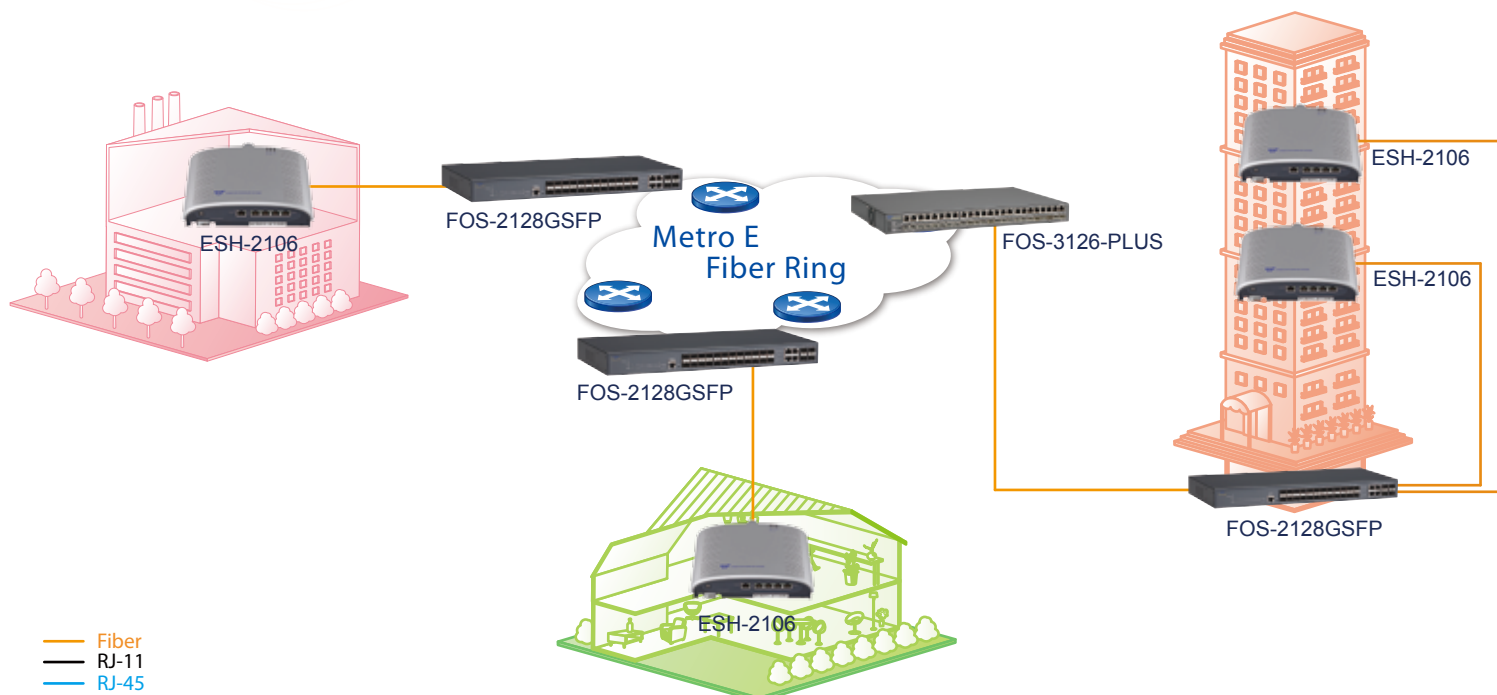
Connection Technology Systems (CTS) ESH-2106 series CPE Switch are the Fast Ethernet 10/100Base-TX to 100Base-FX CPE Switch within an eye-catching elegant shaping box, plus a built-in cable tray. Often, the fiber is intentionally left longer than it actually needs. With the built-in cable tray, it allows users to enclose the excessive fiber within the box, providing extra protection for the sensitive fiber.

The ESH-2106 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-2106 series CPE Switch is fully compliant with IEEE 802.3 & 802.3u standards. You can connect another switch or NIC through ESH-2106 series CPE switch 10/100Base-TX twisted-part RJ-45 port without crossover cables and monitor the status through comprehensive LED display.

ESH-2106 series CPE Switch can be easily managed by web interface, telnet, SNMP, and DHCP auto-provision. With CTS unique Power Down Trap feature, ESH-2106 is able to send out a SNMP trap message when encountering power outage.

## Application Diagram



## Specification

### Interface

LAN Port  
10/100Base-TX RJ-45 x 6  
100Base-FX 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  
80K 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 / CLI 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: 6.5W  
- DC side: 5.6W

### 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

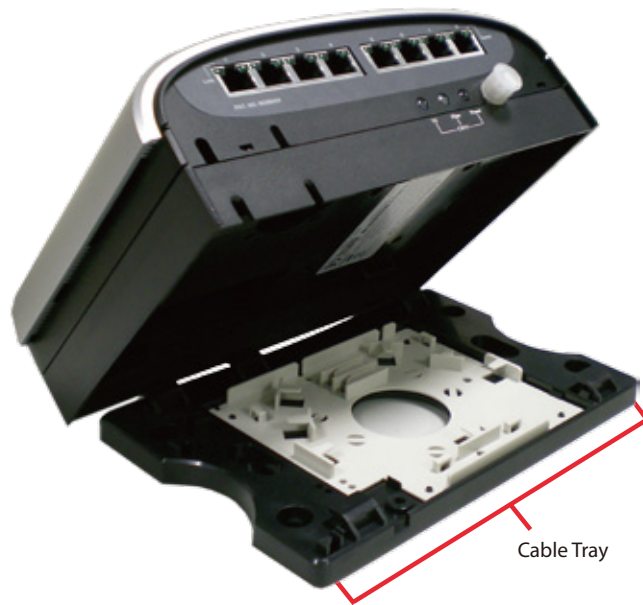
### EMC/Safety

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-2106FC	100	MM	SC	2KM	1	10/100	5	External Power adapter
ESH-2106FT	100	MM	ST	2KM	1	10/100	5	External Power adapter
ESH-2106FC(SM-30/50/80/100)	100	SM	SC	30/50/80/100KM	1	10/100	5	External Power adapter
ESH-2106W2A(SM-20/40)	100	WDM	SC	20/40KM	1	10/100	5	External Power adapter
ESH-2106W2B(SM-20/40)	100	WDM	SC	20/40KM	1	10/100	5	External Power adapter
ESH-2106SFP	100	SFP	-	-	1	10/100	5	External Power adapter
ESH-2106TP	-	-	-	-	-	10/100	6	External Power adapter

## Built-in Cable Tray Overview



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