

# HET-3105-PLUS Series CPE Switch




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## Features

- **Easy To Install And Use**  
 With Auto-MDI/MDI-X and 10/100/1000Mbps auto-senses support. If network device connected to the CPE Switch is never need crossover cables and adjusts running at 10/100/1000Mbps speed
- **9K byte Jumbo frame**  
 Support jumbo frame size 9K bytes to ease the network traffic loading and facilitate IPTV service
- **Support IGMP Snooping V1/V2**  
 Hardware based IGMP snooping to quickly plug-n-play for IPTV service deployment without complicated configuration setting required
- **DHCP Auto-Provision with Text based Config file**  
 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 rolls 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 Gigabit CPE switch which requires quickly plug-n-play for FTTH service deployment**

\*\*  For Specific Model. Please check Order Information for details.

Gigabit Ethernet 4-Port 10/100/1000Base-T with 1-Port 1000Base-X or 100/1000Base-X or 10/100/1000Base-T Uplink Managed CPE Switch

## Description

Connection Technology Systems (CTS) HET-3105-PLUS series CPE Switch are the Gigabit Ethernet 10/100/1000Base-T to 1000Base-X or 100/1000Base-X or 10/100/1000Base-T CPE Switch within an eye-catching pearl-white 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.

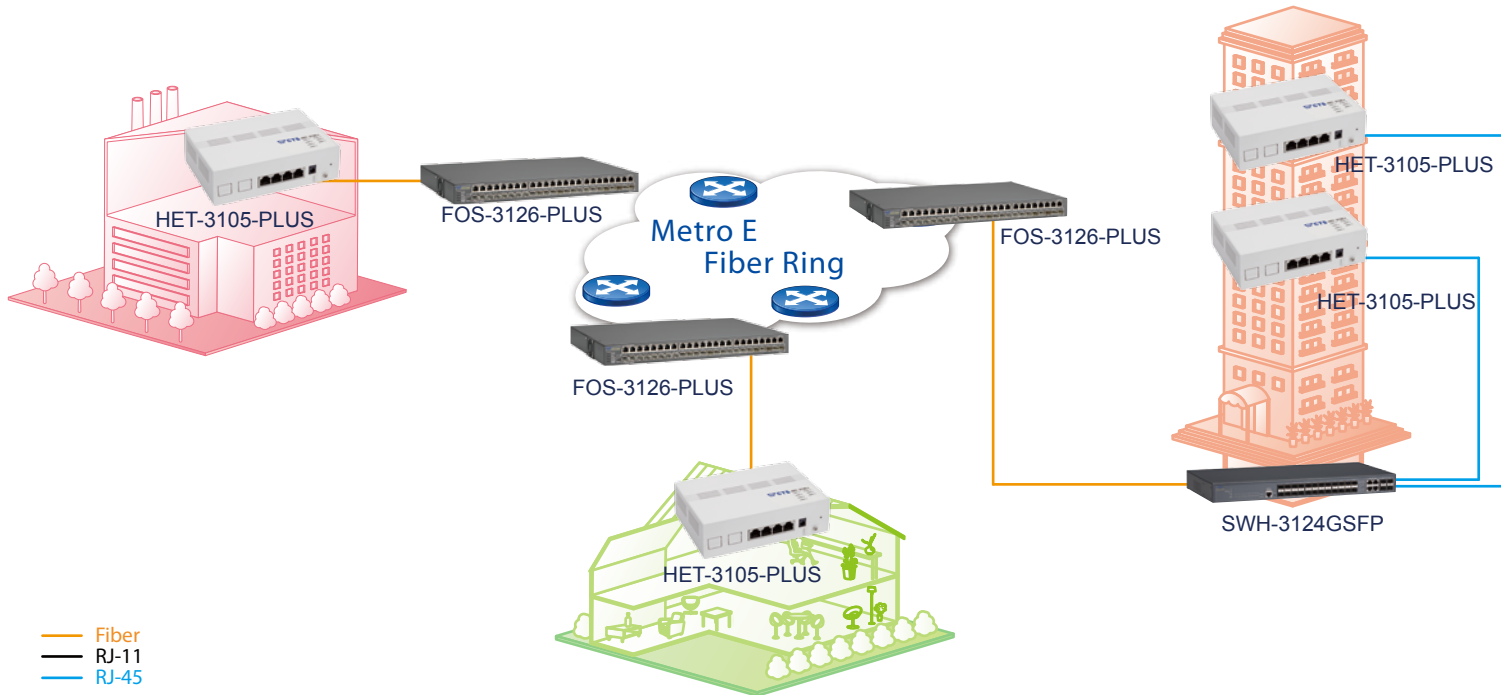
The HET-3105-PLUS series CPE Switch traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, SC connector, bi-directional WDM, or a SFP slot for pluggable fiber transceiver. The traditional transmission distance of 100m over RJ-45 copper can be extended from 550m to 100km over fiber.

HET-3105-PLUS series CPE Switch is fully compliant with IEEE 802.3 , 802.3u , 802.3ab & 802.3z standards. You can connect another switch or NIC through HET-3105-PLUS series CPE switch 10/100/1000Base-T twisted-part RJ-45 port without crossover cables and monitor the status through comprehensive LED display.

HET-3105-PLUS series CPE Switch can be easily managed by web interface, CLI, telnet, SNMP, and DHCP auto-provision. With CTS unique Power Down Trap feature, HET-3105-PLUS is able to send out a SNMP trap message when encountering power outage.

Additionally, the HET-3105-PLUS series CPE Switch IGMP snooping if the Set Top Box is connected to, the operation is no need complicated configuration for IPTV service deployment. With outstanding performance, quality, and features packed in a compact sized device, the HET-3105-PLUS series CPE Switch is a great selection for expanding FTTH network.

## Application Diagram



## Specification

### Interface

LAN Port  
10/100/1000Base-T RJ-45 x 4  
WAN Port  
1000Base-X x 1 or 100/1000Base-X  
or 10/100/1000Base-T

### Standards

IEEE 802.3 10Base-T  
IEEE 802.3u 100Base-TX/FX  
IEEE 802.3ab 1000Base-T  
IEEE 802.3z 1000Base-X  
IEEE 802.3x Flow Control

### H/W 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  
Jumbo Frame up to 9K bytes  
4K 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 16 VLAN Groups  
Priority Queues: 4 Queues

### Management Feature

WEB\* / SNMP / CLI / Telnet interface  
FTP & TFTP Firmware update  
DHCP Client  
DHCP Auto-Provision  
Text Based Config  
SFF-8472(digital diagnostic interface for SFP)  
Power down trap

### LED

LAN , Power , WAN,Status

### Power Requirement

Power adaptor  
- AC input: 100VAC~240VAC  
- Frequency range: 50~60Hz  
- DC output: 12V, 1A  
Power consumption:  
-AC side: 9.29W  
-DC side: 8.18W

### Environmental Condition

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

### Dimension & Weight

Size: 160 x 116 x 45 mm (WxDxH)  
Shipping Weight: 0.57KG

### 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
HET-3105FC-PLUS	1000	MM	SC	550M	1	10/100/1000	4	External Power adapter
HET-3105FC(SM-30/50/80/100)-	1000	SM	SC	30/50/80/100KM	1	10/100/1000	4	External Power adapter
HET-3105W2A(SM-10/20/40)-PLUS	1000	WDM	SC	10/20/40KM	1	10/100/1000	4	External Power adapter
HET-3105W2B(SM-10/20/40)-PLUS	1000	WDM	SC	10/20/40KM	1	10/100/1000	4	External Power adapter
HET-3105W2A(SM-10/20)-PLUS-DR	100/1000	WDM	SC	10/20KM	1	10/100/1000	4	External Power adapter
HET-3105W2B(SM-10/20)-PLUS-DR	100/1000	WDM	SC	10/20KM	1	10/100/1000	4	External Power adapter
HET-3105SFP-PLUS-DR	100/1000	SFP	-	-	1	10/100/1000	4	External Power adapter
HET-3105TP-PLUS	-	-	-	-	-	10/100/1000	5	External Power adapter

SFP-31-DR Series

MODEL	FIBER PORT				
	Speed	Type	Connector	Distance	Wavelength
SFP-31FC-DR	100Mbps/1000Mbps	MM	LC	550M/2KM	1310nm
SFP-31FC(SM-10)-DR	100Mbps/1000Mbps	SM	LC	10KM	1310nm
SFP-31W2A(SM-10/20)-DR	100Mbps/1000Mbps	WDM	LC	10/20KM	TX:1310nm RX:1550nm
SFP-31W2B(SM-10/20)-DR	100Mbps/1000Mbps	WDM	LC	10/20KM	TX:1550nm RX:1310nm

SFP-31 Series

MODEL	FIBER PORT				
	Speed	Type	Connector	Distance	Wavelength
SFP-31FC	1000Mbps	MM	LC	550M	850nm
SFP-31FC(SM-10/20/40/50/80/120)	1000Mbps	SM	LC	10/20/40/50/80/120KM	1310nm/1310nm/1310nm/1550nm/1550nm/1550nm
SFP-31W2A(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1310nm/1310nm/1310nm/1490nm RX:1550nm/1550nm/1550nm/1570nm
SFP-31W2B(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1550nm/1550nm/1550nm/1570nm RX:1310nm/1310nm/1310nm/1490nm
SFP-31FC-C09	1000Mbps	CWDM	LC	80KM	1430nm
SFP-31FC-C10	1000Mbps	CWDM	LC	80KM	1450nm
SFP-31FC-C11	1000Mbps	CWDM	LC	80KM	1470nm
SFP-31FC-C12	1000Mbps	CWDM	LC	80KM	1490nm
SFP-31FC-C13	1000Mbps	CWDM	LC	80KM	1510nm
SFP-31FC-C14	1000Mbps	CWDM	LC	80KM	1530nm
SFP-31FC-C15	1000Mbps	CWDM	LC	80KM	1550nm
SFP-31FC-C16	1000Mbps	CWDM	LC	80KM	1570nm
SFP-31FC-C17	1000Mbps	CWDM	LC	80KM	1590nm
SFP-31FC-C18	1000Mbps	CWDM	LC	80KM	1610nm

SFP-21 Series

MODEL	FIBER PORT				
	Speed	Type	Connector	Distance	Wavelength
SFP-21FC	100Mbps	MM	LC	2KM	1310nm
SFP-21FC(SM-20/40/80)	100Mbps	SM	LC	20/40/80KM	1310nm/1310nm/1550nm
SFP-21W2A(SM-20/40/80)	100Mbps	WDM	LC	20/40/80KM	TX:1310nm/1310nm/1490nm RX:1510nm/1510nm/1570nm
SFP-21W2B(SM-20/40/80)	100Mbps	WDM	LC	20/40/80KM	TX:1510nm/1510nm/1570nm RX:1310nm/1310nm/1490nm
SFP-21W2A(SM-20)SC	100Mbps	WDM	SC	20KM	TX:1310nm RX:1550nm
SFP-21W2B(SM-20)SC	100Mbps	WDM	SC	20KM	TX:1550nm RX:1310nm
SFP-21FC-C09	100Mbps	CWDM	LC	80KM	1430nm
SFP-21FC-C10	100Mbps	CWDM	LC	80KM	1450nm
SFP-21FC-C11	100Mbps	CWDM	LC	80KM	1470nm
SFP-21FC-C12	100Mbps	CWDM	LC	80KM	1490nm
SFP-21FC-C13	100Mbps	CWDM	LC	80KM	1510nm
SFP-21FC-C14	100Mbps	CWDM	LC	80KM	1530nm
SFP-21FC-C15	100Mbps	CWDM	LC	80KM	1550nm
SFP-21FC-C16	100Mbps	CWDM	LC	80KM	1570nm
SFP-21FC-C17	100Mbps	CWDM	LC	80KM	1590nm
SFP-21FC-C18	100Mbps	CWDM	LC	80KM	1610nm

## Built-in Cable Tray Overview



\* This is an overview of CTS HET series cable tray ONLY, and does not represent product details.