

HES-3109 Series CPE Switch



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Gigabit Ethernet 8-Port 10/100/1000Base-T
with 1-Port 1000Base-X or 100/1000Base-X or
10/100/1000Base-T Uplink Managed CPE Switch

Features

- **Green Ethernet**
Comply with IEEE 802.3az standard. It allows HES-3109 to provide high performance with minimum power consumption
- **Support IGMP Snooping V1/V2**
IGMP snooping to quickly deploy IPTV service
- **9K byte Jumbo frame**
Support jumbo frame size 9K bytes to ease the network traffic loading and facilitate 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 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
- **Smart Lighting Control**
A LED-display which can be switched on/off by the end user for wall installations in private homes
- **Optional Cable Tray**
This is a flexible option for FTTH installation. Cable tray can allow the fiber cable to have extra protection for the sensitive fiber

Target Applications

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

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

Description

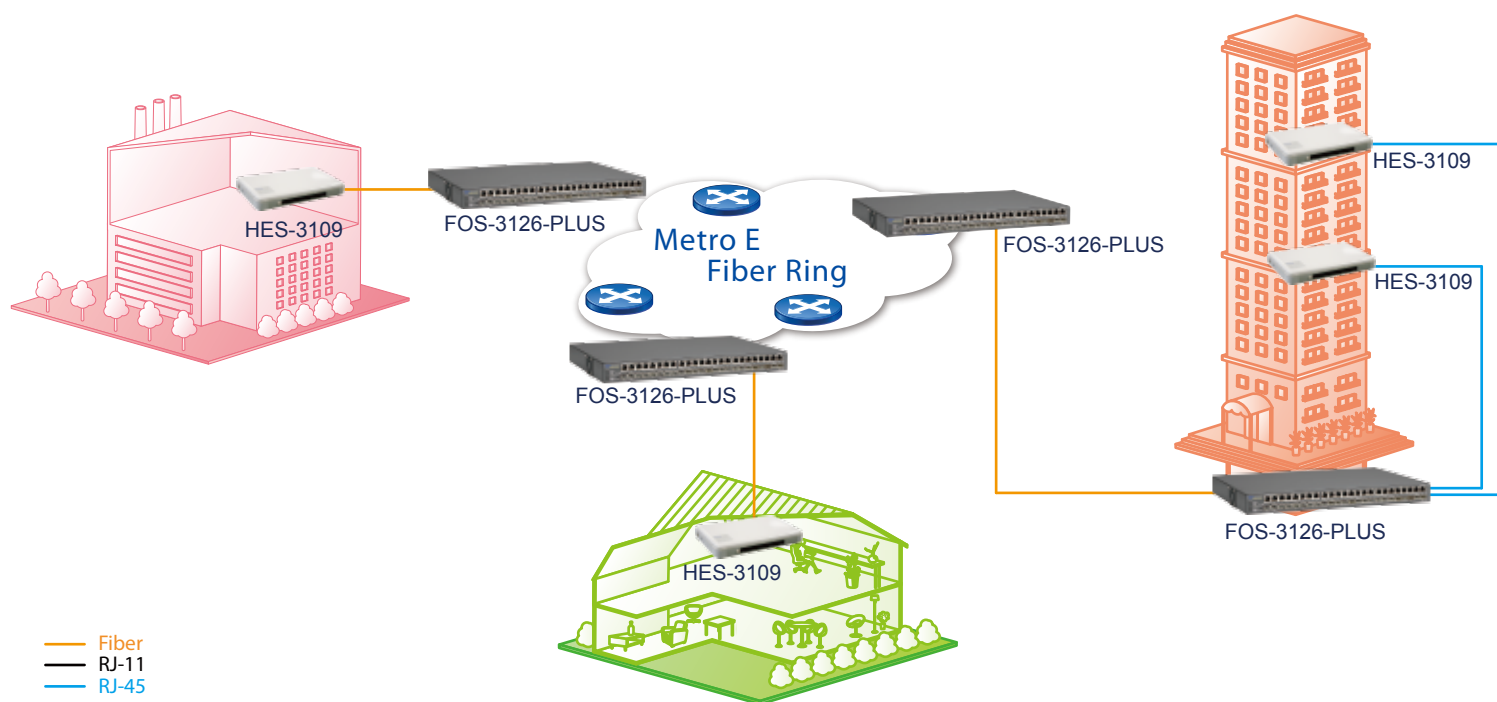
Connection Technology Systems (CTS) HES-3109 series CPE Switch are the Fast Ethernet 10/100/1000Base-T to 1000Base-X or 100/1000Base-X or 10/100/1000Base-T CPE Switch within an eye-catching pearl-white box. Often, the fiber is intentionally left longer than it actually needs. Optional cable tray allows users to enclose the excessive fiber within the box, providing extra protection for the sensitive fiber.

The HES-3109 series CPE Switch traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, 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.

HES-3109 series CPE Switch is fully compliant with IEEE 802.3, 802.3u, 802.3ab and 802.3z standards. You can connect another switch or NIC through HES-3109 series CPE switch 10/100/1000Base-T twisted-pair RJ-45 port without crossover cables and monitor the status through comprehensive LED display.

HES-3109 series CPE Switch can be easily managed by web interface, CLI, telnet, SNMP, and DHCP auto-provision. With CTS unique Power Down Trap feature, HES-3109 is able to send out a SNMP trap message when encountering power outage.

Application Diagram



Specification

Interface

LAN Port
10/100/1000Base-T RJ45 x 8
WAN Port
1000Base-X x 1 or 100/1000Base-X
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 802.1q Tag VLAN
IEEE 802.1p Priority

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
8K MAC address table
1M bits memory buffer

Switch Feature

IGMP snooping V1/V2
Bandwidth Control
Tag VLAN
Q-in-Q VLAN
VLANs: Support to 32 VLAN Groups
QoS support 802.1p and ToS Classification
Priority Queues: 4 Queues

Management feature

SNMP / CLI / Telnet interface
TFTP Firmware update
Storm Control
DHCP Client
DHCP Auto-Provision
Text Based Config
SFF-8472(digital diagnostic management interface for SFP)
Power down trap

LED

Power , Port Link/Act, Status
LED ON/OFF control button

Power Requirement

Power adaptor
- AC input: 100VAC~240VAC
- Frequency range: 50~60Hz
- DC output: 12V
Power consumption:
- AC side: 11.8W
- DC side: 8.3W

Environmental Condition

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

Dimension & Weight

Main Unit:
- Size: 228 x 148 x 33mm (WxDxH)
- Shipping Weight: 1.6KG
Main Unit with Cable tray
- Size: 228 x 191.5 x 46mm (WxDxH)

EMC/Safety

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

Optional Cable Tray Overview

With optional cable tray (HES-FCT)

Without cable tray



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

Order Information

HET-3109							
MODEL	FIBER PORT				TP PORT		SUPPORT POWER SOURCE
	Speed	Type	Connector	Distance	Speed	Ports	Power Type
HES-3109FC	1000	MM	SC	550M	10/100/1000	8	External Power Adapter
HES-3109FC(SM-10/20/30/50/80)	1000	SM	SC	10/20/30/50/80KM	10/100/1000	8	External Power Adapter
HES-3109W2A(SM-10/20/40)	1000	WDM	SC	10/20/40KM	10/100/1000	8	External Power Adapter
HES-3109W2B(SM-10/20/40)	1000	WDM	SC	10/20KM	10/100/1000	8	External Power Adapter
HES-3109W2A(SM-10/20)-DR	100/1000	WDM	SC	10/20KM	10/100/1000	8	External Power Adapter
HES-3109W2B(SM-10/20)-DR	100/1000	WDM	SC	10/20KM	10/100/1000	8	External Power Adapter
HES-3109SFP-DR	100/1000	SFP	-	-	10/100/1000	8	External Power Adapter
HES-3109TP	-	-	-	-	10/100/1000	9	External Power Adapter
HES-FCT	Fiber Cable Management Tray Unit For HES Series						