GSW-3100C

4 x 1G/2.5G RJ45 + 1 x 10G RJ45 + 1 x 1G/10G SFP+ L2 Managed Ethernet Switch with Cable Tray Optional

CTC Union Technologies unveils the brand new 10G CPE switch, GSW-3100C, which supports multigigabit technology for active Ethernet based FTTH application. This new 10G CPE switch is designed with 4 ports 10M/100M/1G/2.5Gbps and 1 port 10M/100M/1G/2.5G/5G/10Gbps RJ45 as well as 1 port 1G/10Gbps SFP+ based fiber optics. As usual, the GSW-3100C adopts the evolutionary cable tray structural design to help the installer more easily and protectively manage the excess fiber within the unit.

The GSW-3100C leverages the technology strength of chipset provider to enable the multigigabit speed feature. The enterprise and residential users will be able to experience the reliable and secure Ethernet based high speed network access and also connect the existing Cat5e/Cat6 cabling infrastructure with popular WiFi 6E/7 device, NAS access as well as small cell or powerful workstations to break through the limitation of 1Gbps data rate for content richer applications such as Cloud storage, 4K streaming video/game services or HD/UHD teleconferencing.

CTC Union Technologies adopts the new generation SoC single chip insides the GSW-3100C. It is developed through highly circuit integration and manufactured by the advance wafer process. Therefore, GSW-3100C can benefit a low power consumption and cost-effective targets from this SoC solution compared with the previous generation product which was the combination of multiple chips. However, The GSW-3100C remains supporting most of popular Layer 2 feature sets with network management interfaces such as Web GUI, SNMP. The GSW-3100C also supports ZTP (Zero Touch Provisioning) function which is suitable for the very large-scale deployment from operator or service provider. These device management features can avoid truck rolls and save OPEX for FTTH service providers.
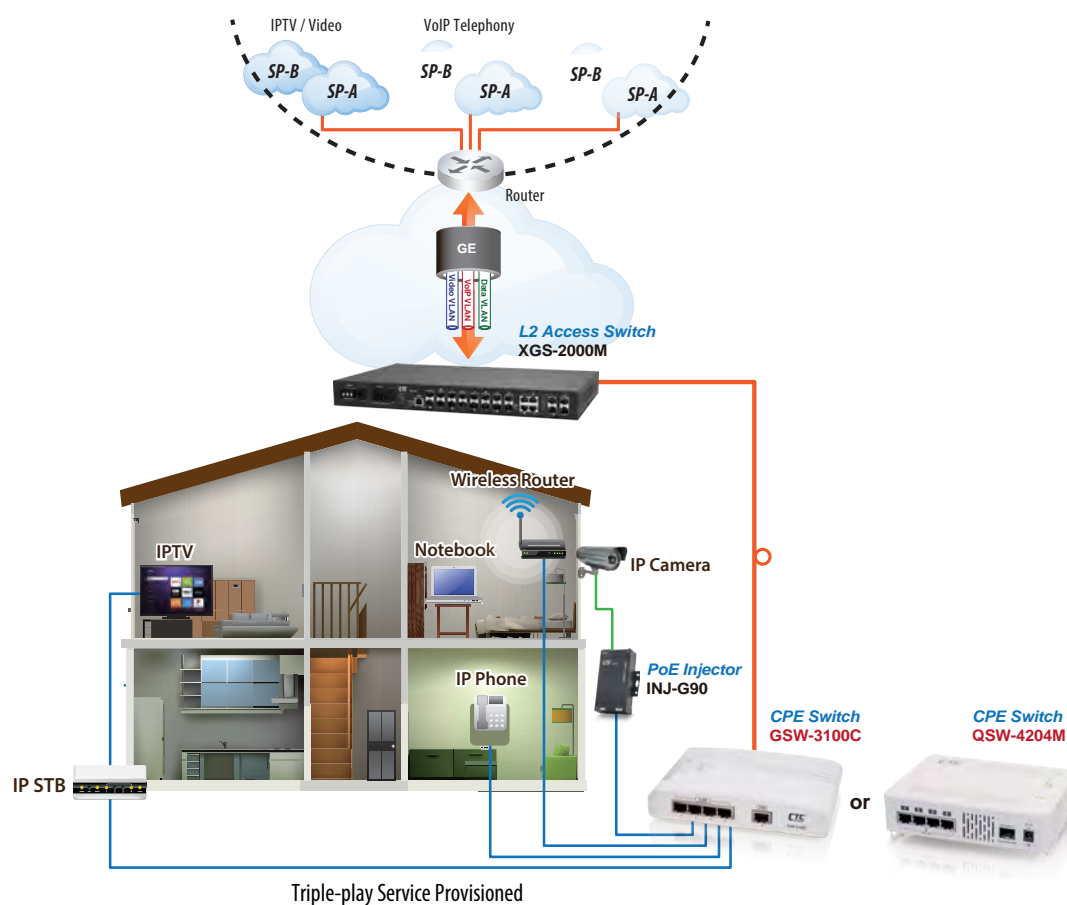
Specifications

Interface	LAN	RJ-45 Port: 100M/1G/2.5G x 4 + 100M/1G/2.5G/5G/10G x 1
	WAN	Fiber Port: 1G/10G SFP+ x 1
Hardware	Supports Auto-negotiation for 2.5G RJ45 Port (100M/1G/2.5G and Full/Half Duplex mode)	
	Supports Auto-negotiation for 10G RJ45 Port (100M/1G/2.5G/5G/10G and Full/Half Duplex mode)	
	Supports Auto MDI / MDIX auto-crossover for TP ports	
	Store and forward switching	
	8 megabits of integrated shared packet memory	
	Supports 16K MAC Address Table	
	Supports 10K Bytes Jumbo Frame size	
Standard Compliance	IEEE 802.3	10BASE-T
	IEEE 802.3u	100BASE-TX/FX
	IEEE 802.3ab	1000BASE-T
	IEEE 802.3bz	2.5GBASE-T
	IEEE 802.3z	1000BASE-X
	IEEE 802.3ae	10GBASE-SR
	IEEE 802.3x	Flow Control
	IEEE 802.1p	QoS
	IEEE 802.1Q	VLAN Tagging
	IEEE 802.1ad	Q-in-Q Provider Bridges
	IEEE 802.3ad	Link aggregation
	IEEE 802.1x	Port based network access
	IEEE 802.1D	MAC Bridges/STP
	IEEE 802.1w	RSTP
	IEEE 802.1s	MSTP
	IEEE 802.1ab	Link Layer Discovery Protocol
	IEEE 802.3az	Energy Efficient Ethernet (EEE) function

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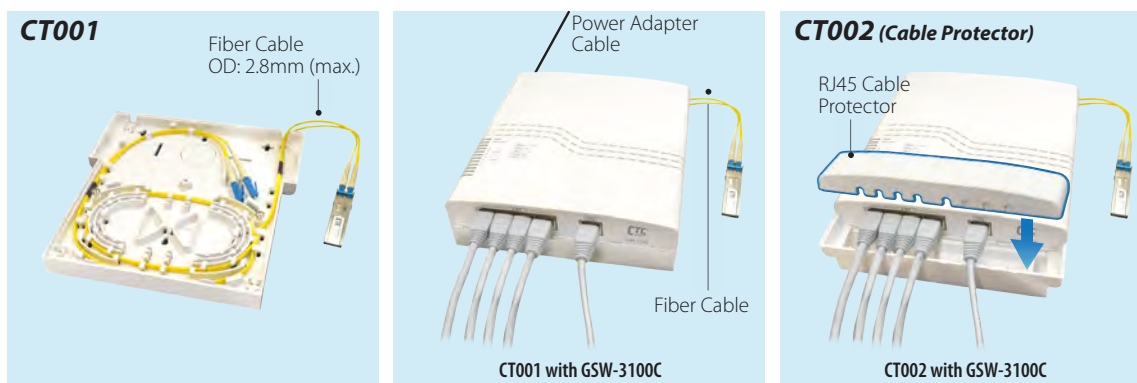|	
VLAN Feature	IEEE 802.1Q tagged VLAN (1K VLAN groups)
	IEEE 802.1ad Q-in-Q VLAN
	MAC Based VLAN
	Private VLAN for port isolation
Link Aggregation & Protection	Static trunk (SA, DA, IP, TCP/UDP port)
	IEEE 802.3ad LACP
	STP/RSTP
	Loop Protection
QoS Feature	Hard wired IEEE 802.1p 8 priority queue per port
	Traffic scheduling based on Strict / WRR priority
	CoS based traffic classification on switch port, VLAN ID, DSCP, TCP/UDP port
	IEEE 802.1p priority tag remarking / DSCP remarking
	Per port/queue based ingress/egress rate limit in steps of 1000kbps
	Multicast/Broadcast/Unicast storm control with flooding control
Security Feature	Static port security (MAC based)
	Per port limited MAC learning
	Port limited flooding of unknown MAC address on fiber uplink port
	Port based/MAC based/single/multiple IEEE 802.1x access control
	128 ACL rules based on L2~L4 information
	IP/MAC binding
	IP source guard & ARP inspection
	HTTPs
IP Multicasting	IGMP snooping v1/v2/v3, MLD snooping v1/v2
	IGMP fast leave / query
	IGMP filtering / throttling
Management	Management via Web / HTTP
	Support SNMP v1 & v2c, RMON I (1, 2, 3, 9 groups), RFC 1213 MIB (MIB-II) and Private MIB
	Support dying gasp in trap message
	Support DHCP client for IPv4/IPv6
	Support DHCP Snooping
	DHCP Auto Provisioning for firmware and configuration upgrade based on ・Option 60: Class identifier ・Option 66: Server IP ・Option 67: File name ・Option 254: File type
	TFTP/HTTP based Firmware and configuration upgrade
	Dual Bank Image
	DNS client/proxy
	Port mirroring
	NTP client
	UPnP
Power Input	AC/DC power adaptor, 12VDC/1A
Operating Temperature	0~40°C
Storage Temperature	-25~70°C
Humidity	5%~90% (non-condensing)
Certification	CE, FCC class A

Ordering Information

Model Name	Description
GSW-3100C	4-port 1G/2.5G RJ45 + 1-port 10G RJ45 + 1-port 1G/10G SFP+ Managed Ethernet Switch (cable tray optional)

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Application

IPTV / Video   VoIP Telephony

SP-B   SP-A   SP-B   SP-A   SP-B   SP-A

Router

GE

Video VLAN | VoIP VLAN | Data VLAN

L2 Access Switch
XGS-2000M

Wireless Router

IPTV   Notebook   IP Camera

IP Phone   **PoE Injector**
INJ-G90

IP STB

CPE Switch
GSW-3100C   or   **CPE Switch**
QSW-4204M

Triple-play Service Provisioned

Cable Tray Assembly

CT001/CT002 is an optional fiber tray and mounting hardware for deploying GSW-3100C for residential fiber to the home applications. CT001/CT002 tray options is wall mounted, allowing secure termination of fiber leads.

CT001

Fiber Cable
OD: 2.8mm (max.)

Power Adapter
Cable

CT002 *(Cable Protector)*

RJ45 Cable
Protector

Fiber Cable

CT001 with GSW-3100C   **CT002 with GSW-3100C**

Optional Accessories

Model Name	Description
CT001	Cable Tray for GSW-3100C
CT002	Cable Tray & LAN cable protection cover for GSW-3100C

Dimensions (mm)

180(H)x 169.5(W)x 43(D)

CT001

210.3(H)x 169.5(W)x 43(D)

CT002