GSW-2020C7

7× GbE, RJ45 + 1× Dual Rate SFP L2+ Managed CPE Switch with Cable Tray

The GSW-2020C7 is a new generation CPE switch developed by CTC Union Technologies. This new CPE switch is designed with 7 ports 10/100/1000 Base-T RJ45 and 1 port 100/1000Base-X SFP based fiber optics for P2P FTTH service applications. Its design concept is well considered from the basis of stylish and elegant appearance for the residential user as well as the advantage of easy installation for the FTTH service provider. Hence, the GSW-2020C7 makes an Internet connected device no longer like the legacy ones hidden in the corner of household. Oppositely, it can become as an eye-catching furniture to blend into the overall decoration aesthetics at home. As usual, the GSW-2020C7 adopts the evolutionary cable tray structural design to help the installer more easily and protectively manage the excess fiber within the unit.

The GSW-2020C7 fully supports Layer 2 feature sets with complete network management interfaces such as Web GUI, CLI and SNMP. The GSW-2020C7 also supports DHCP auto provisioning and TR-069 client function which are suitable for the very large scale deployment from operator or service provider. Both device management features can avoid truck rolls and save OPEX for FTTH service providers.

Features

- Built-in IPTV probe feature can monitor IPTV service quality and performance in real-time
- Smart interrogator function - automatically gather vital information from the CPE at all times and store in database accessible by the operator
- Smart fiber tray design makes fiber cable management more handy

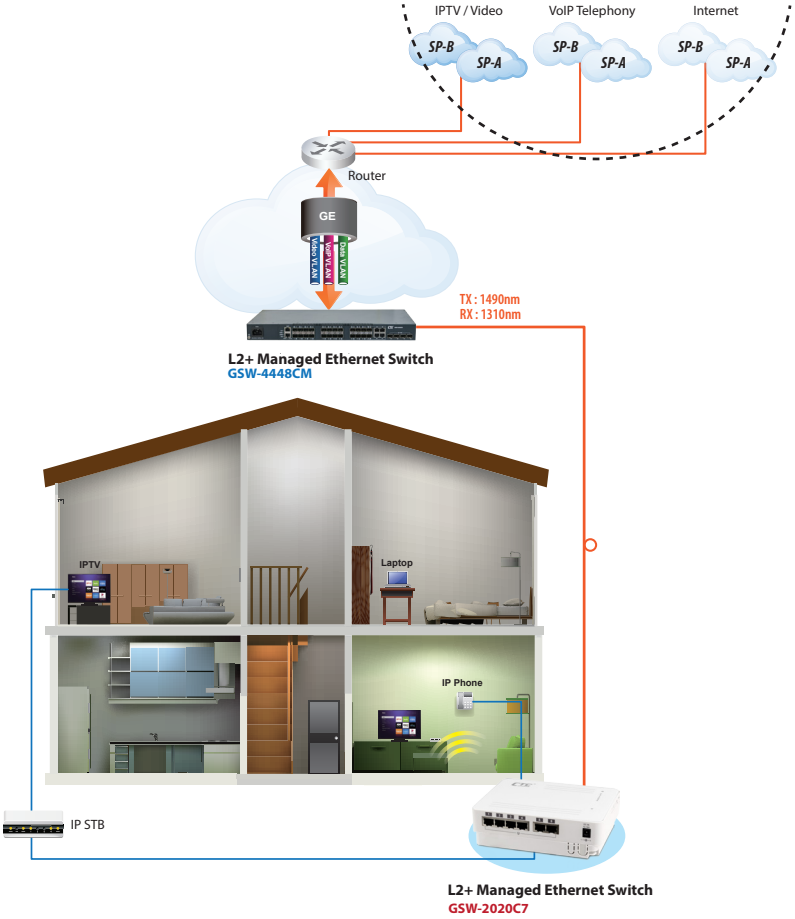
Specifications

Interface	fiber port: 1x 100M/1Gbps SFP	
	Copper port: 6x 10/100/1000Mbps RJ45 1x 10/100/1000Mbps RJ45 for telemetry	
Packet forwarding Rate	14880pps	@10Mbps
	148800pps	@100Mbps
	1488000pps	@1000Mbps
Transmission Method	Store and Forward Switching	
Packet Buffer	1.75M bits	
MAC Table Size	4K	
Jumbo Frame Size	10240 Bytes	
VLAN Feature	IEEE 802.1Q tagged VLAN (4K VLAN groups), IEEE 802.1ad QinQ VLAN	
	Voice VLAN, MAC based VLAN, Protocol based VLAN, GVRP (GARP VLAN registration protocol)	
	IP subnet based VLAN, Private VLAN for port isolation, VLAN Translation	
Link Aggregation	Static trunk (SA, DA, IP, TCP/UDP port)	
	IEEE 802.3ad LACP, 4 LACP trunk groups Max; 8 port Max. per LACP trunk group	
L2 switching Protection	IEEE 802.1D STP/IEEE 802.1w RSTP/IEEE 802.1s MSTP, Loop Protection	
QoS Feature	Hard wired IEEE 802.1p 8 priority queues per port, Traffic scheduling based on strict/WRR priority	
	CoS based traffic classification on switch port, VLAN ID, DSCP, TCP/UDP port, IEEE 802.3x flow control	
	IEEE 802.1p priority tag remarking, DSCP remarking, Multicast/Broadcast/Unicast storm control with flooding control	
	Per port/queue based ingress/egress rate limit in steps of 100kbps	
Security	Static port security (MAC based), Per port limited MAC learning, 128 ACL rules based on L2~L4 information	
	Port based/MAC base/single/multiple IEEE 802.1x access control, HTTPs & SSH v2	
	RADIUS/TACACS+ AAA, IP/MAC binding, IP source guard & ARP inspection	

IP Multicasting	IGMP snooping v1/v2/v3, IGMP proxy, MLD snooping v1/v2, IGMP fast leave, IGMP query, IGMP filtering/throttling
	MVR (Multicast VLAN Registration), IPTV probe functionality
Management	WebGUI/Telnet CLI interface, SNMP v1/v2c/v3, TR-069 client for remote device management and configuration
	RMON I (1,2,3,9 groups) & RFC1213 MIB II, Dying gasp in trap message, DHCP client/snooping/relay option 82
	TFTP/HTTP based firmware and configuration upgrade, Port mirroring, Event syslog, DNS client/proxy
	DHCP auto provisioning, NTP client, UPnP, IPv4/IPv6 management, SFF-8472 DDMI, IEEE 802.1ab LLDP
	Smart detect functionality for configurable log and trap warning option
Power Input	AC/DC power adaptor 12VDC/1A
Power Consumption	7.9 Watts Max.
Operating Temperature	0~45°C
Storage Temperature	-25~70°C
Humidity	5%~90% (non-condensing)
Dimension	162 × 122 × 32.2mm (W×D×H)
Certification	CE, FCC, RoHS

Application

P2P FTTH Hybrid-Triple Play Service Application



Ordering Information

Model Name	Description
GSW-2020C7	7-port 10/100/1000Base-T to 100/1000Base-X Managed GbE Ethernet Switch

Optional Accessories

Model Name	Description
GSW-20FT	Fiber Tray set for GSW-20 series CPE