

GSW-2020C7

Hybrid-Triple Play CPE Switch

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 10/100/1000Base-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

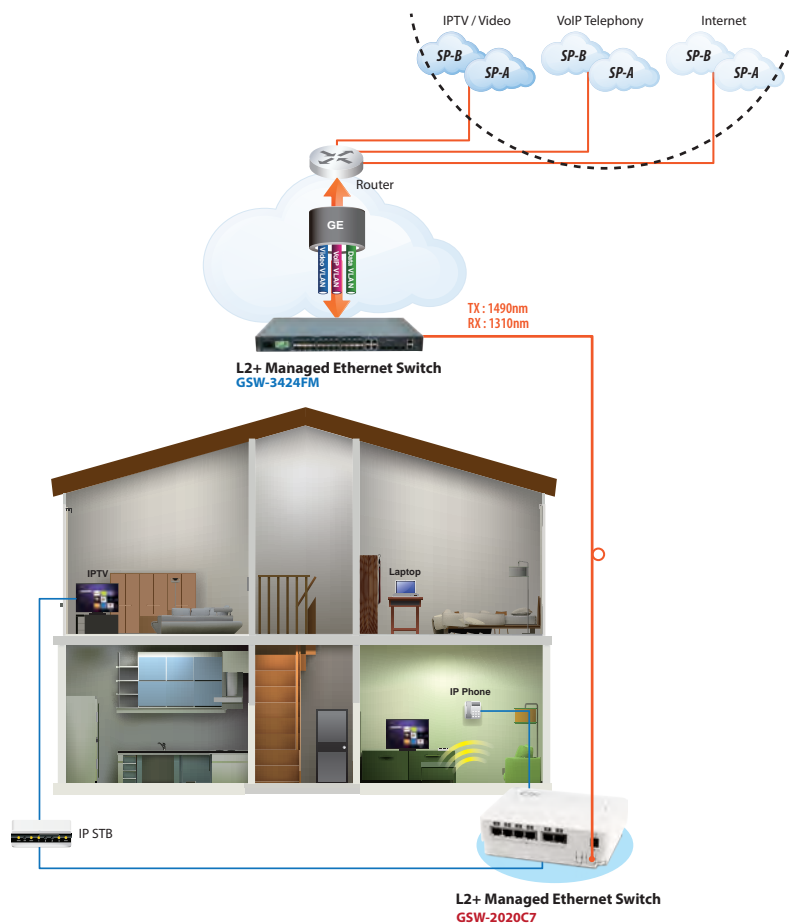
Specifications

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|--------------------------------|---|-----------|
| 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 | |

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|------------------------------|---|
| 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 server, 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 Accessory

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