NEW



# GSW-2020P

**4x GbE, RJ45 + 1x GbE, RJ45 with PoE+/PSE**
**L2+ Managed Ethernet Switch**
**with Cable Tray (option)**

The GSW-2020P is a new generation CPE switch developed by CTC Union Technologies. This new CPE switch is designed with 4 ports 10/100/1000Base-T RJ45, plus 1 port 10/100/1000Base-T RJ45 with PoE+/PSE for fixed wireless internet service application. 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 service provider. Hence, the GSW-2020P 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.

The GSW-2020P fully supports Layer 2 feature sets with complete network management interfaces such as Web GUI, CLI and SNMP. The GSW-2020P 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 service providers.
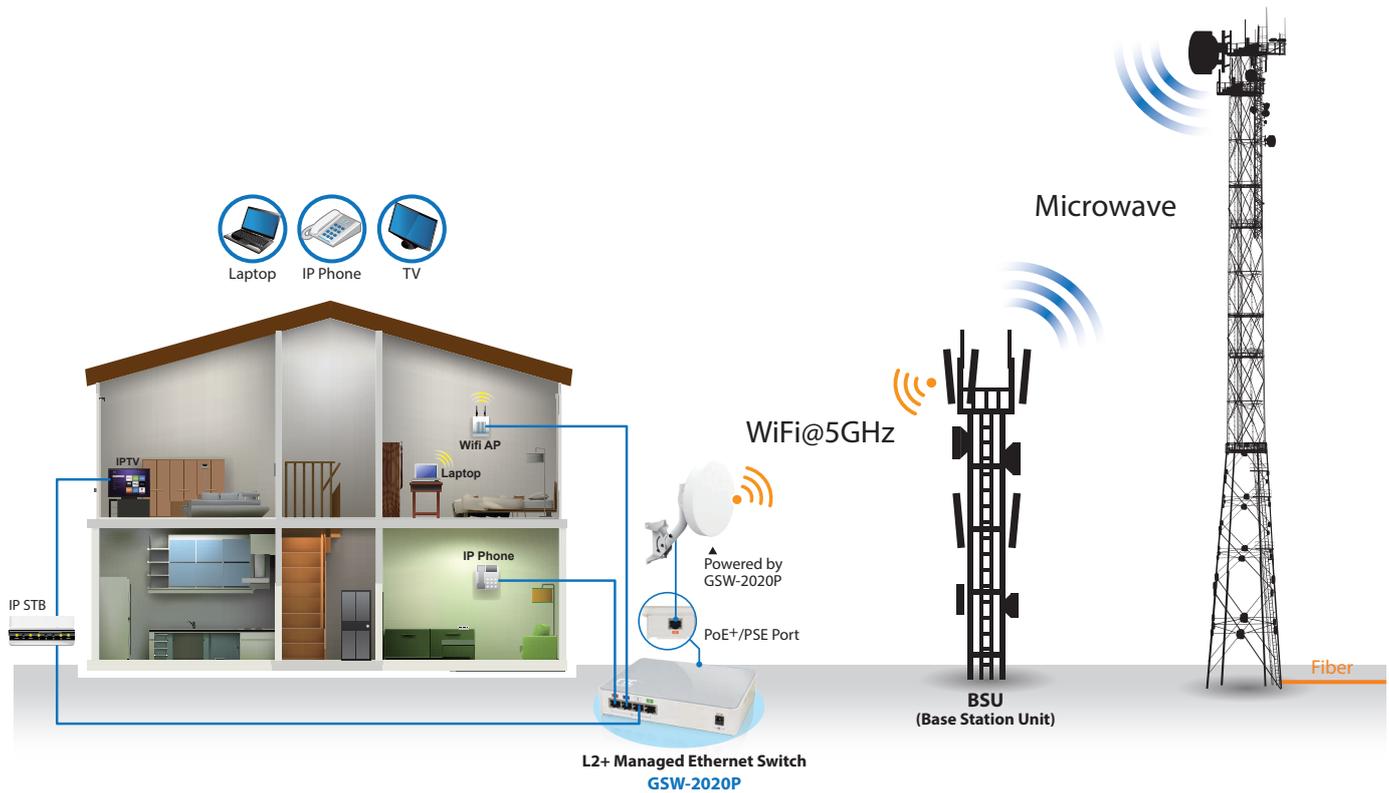
## Feature

- Built-in one PoE+/PSE port for feeding PoE equipment
- Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meter
- Cable diagnostics, measuring cable OK or broken point distance

## Specifications

| | |
|---|---|
| **Interface** | Copper port: 10/100/1000Mbps RJ45 x 4; PoE+/PSE port: 10/100/1000Mbps RJ45 x 1 (Port 5) |
| **PoE Standard** | IEEE 802.3af & IEEE 802.3at |
| **Pin Assignment** | Alternative A Positive (V+) : RJ-45 pin 1.2 Negative (V-) : RJ-45 pin 3.6 |
| **PoE Power Budget** | 30W |
| **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 IP subnet based VLAN Private VLAN for port isolation, VLAN Translation GVRP (GARP VLAN registration protocol) |
| **Link aggregation** | Static trunk (SA, DA, IP, TCP/UDP port) IEEE 802.3ad LACP, 2 LACP trunk groups Max 5 port Max. per LACP trunk |
| **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 802.1p priority tag remarking; DSCP remarking Per Port/Queue based ingress/egress rate limit in steps of 100kbps IEEE 802.3x flow control Multicast/Broadcast/Unicast storm control with flooding control |
| **Security** | Static port security (MAC based) Per port limited MAC learning Port based/MAC base/single/multiple IEEE 802.1x access control 256 ACL rules based on L2~L4 information RADIUS/TACACS+ authentication |

| | |
|---|---|
| **Security** | HTTPs & SSH v2 IP/MAC binding IP source guard & ARP inspection |
| **IP Multicasting** | IGMP snooping v1/v2/v3, IGMP proxy reporting MLD snooping v1/v2 IGMP fast leave IGMP query IGMP filtering/throttling MVR (Multicast VLAN Registration) |
| **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/relay/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 |

| | | |
|---|---|---|
| **Power Input** | Connector | DC power Jack |
| | Input voltage | 52 VDC |
| | Accessory | power adaptor 100~240VAC input 52VDC output |
| **Operating Temperature** | 0~45°C | |
| **Storage Temperature** | -25~70°C | |
| **Humidity** | 5%~90% (non-condensing) | |
| **Dimension** | 162 x 122 x 32.2mm (W x D x H) | |
| **Certification** | CE, FCC, RoHS | |

## P2MP Fixed Wireless Internet Application



**6**

**CPE Switch GSW-2020P**

## Ordering Information

| Model Name | Description |
|------------|-------------|
| GSW-2020P | 4x GbE, RJ45 + 1x GbE, RJ45 with PoE+/PSE Managed Ethernet Switch |

## Optional Accessory

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

2019  v1.0
www.ctcu.com / sales@ctcu.com
Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

**6-23**