

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 airborne broadband 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.

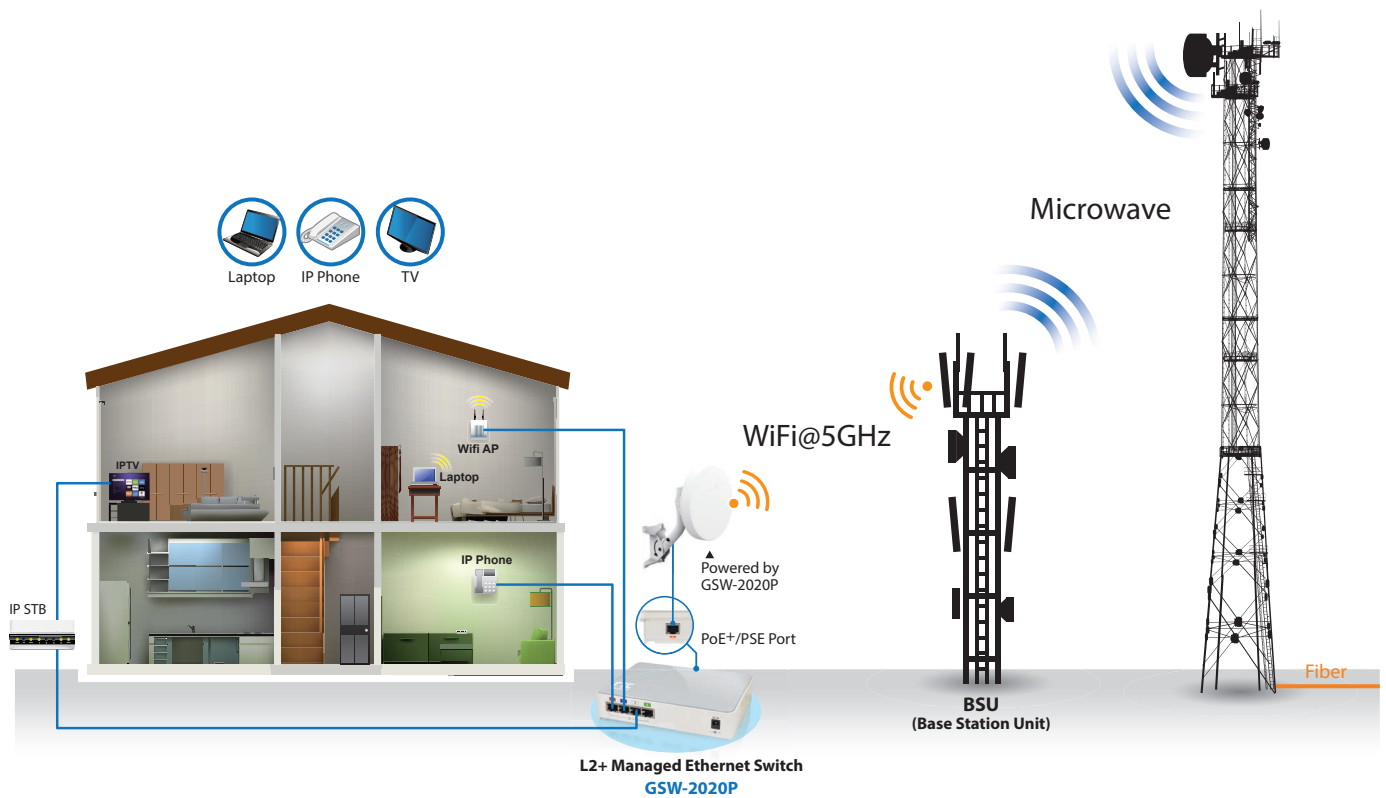
Feature

- 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 DDIM IEEE 802.1ab LLDP	
Power Input	Connector	DC power Jack
	Input voltage	52 VDC
Power Input	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 Airborne Broadband Service Application



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