

NEW



GSW-2020P

4× GbE/RJ45 + 1× 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 Air2Fiber 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. As usual, the GSW-2020P adopts the evolutionary cable tray structural design to help the installer more easily and protectively manage the excess cable within the unit.

The GSW-2020P fully supports Layer 2 feature sets with completely 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 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 cable tray design makes cable management more handy
- Built-in one PoE+/PSE port for feeding PoE/PD active or PoE/PD passive equipment application
- 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

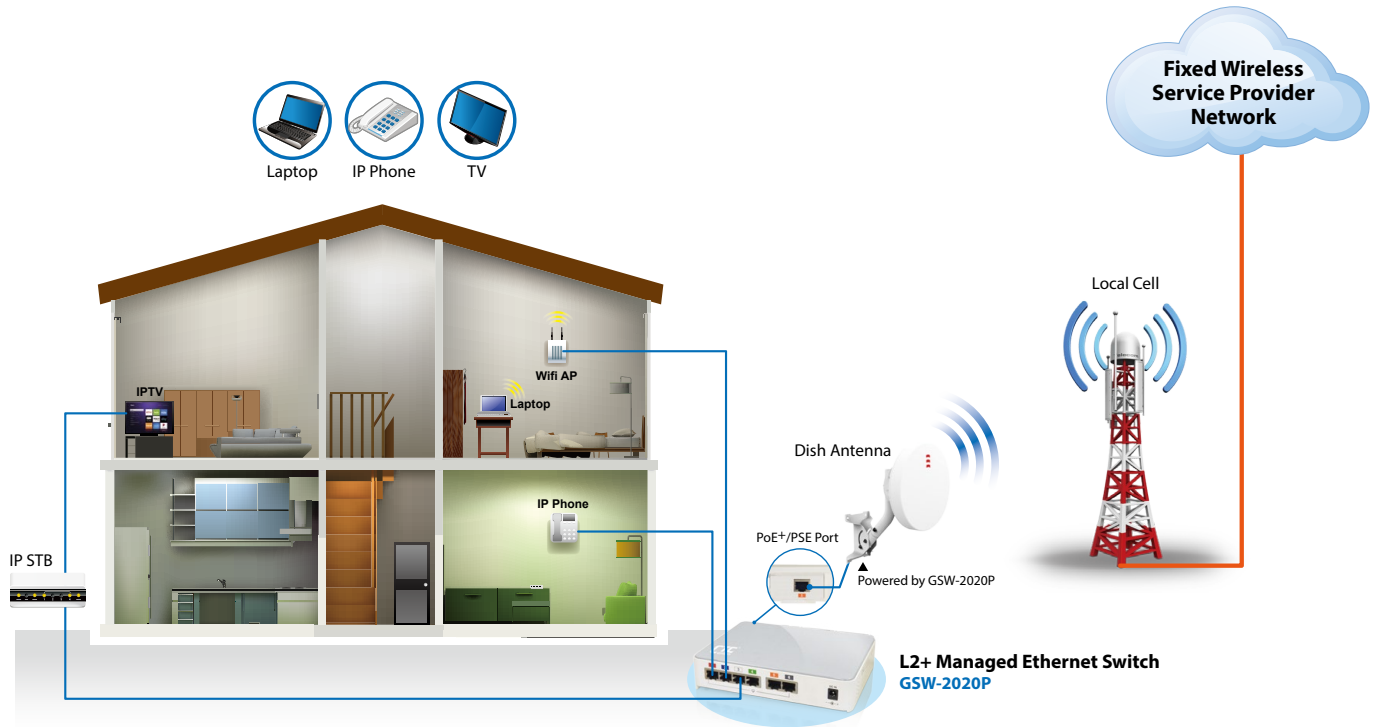
Interface	Copper port: 10/100/1000Mbps RJ45 × 4; PoE+/PSE port: 10/100/1000Mbps RJ45 × 1 (Port 5)																																																				
PoE Standard	IEEE 802.3af & IEEE 802.3at																																																				
PoE Power Budget	30W																																																				
Pin Assignment	<table border="1"> <thead> <tr> <th rowspan="2">Pin</th> <th colspan="2">Standard PoE AF/AT configurable</th> <th colspan="2">Passive PoE 15.4W/30W configurable</th> </tr> <tr> <th>Alternative A mode</th> <th>Alternative B mode</th> <th>Alternative A mode</th> <th>Alternative B mode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>V+</td> <td></td> <td>V+</td> <td></td> </tr> <tr> <td>2</td> <td>V+</td> <td></td> <td>V+</td> <td></td> </tr> <tr> <td>3</td> <td>V-</td> <td></td> <td>V-</td> <td></td> </tr> <tr> <td>4</td> <td></td> <td>V+</td> <td></td> <td>V+</td> </tr> <tr> <td>5</td> <td></td> <td>V+</td> <td></td> <td>V+</td> </tr> <tr> <td>6</td> <td>V-</td> <td></td> <td>V-</td> <td></td> </tr> <tr> <td>7</td> <td></td> <td>V-</td> <td></td> <td>V-</td> </tr> <tr> <td>8</td> <td></td> <td>V-</td> <td></td> <td>V-</td> </tr> </tbody> </table>				Pin	Standard PoE AF/AT configurable		Passive PoE 15.4W/30W configurable		Alternative A mode	Alternative B mode	Alternative A mode	Alternative B mode	1	V+		V+		2	V+		V+		3	V-		V-		4		V+		V+	5		V+		V+	6	V-		V-		7		V-		V-	8		V-		V-
Pin	Standard PoE AF/AT configurable		Passive PoE 15.4W/30W configurable																																																		
	Alternative A mode	Alternative B mode	Alternative A mode	Alternative B mode																																																	
1	V+		V+																																																		
2	V+		V+																																																		
3	V-		V-																																																		
4		V+		V+																																																	
5		V+		V+																																																	
6	V-		V-																																																		
7		V-		V-																																																	
8		V-		V-																																																	
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 128 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) 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/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 IEEE 802.1ab LLDP Smart detect functionality for configurable log and trap warning option

Timing synchronization	IEEE 1588v2 (port1~4)	
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 × 122 × 32.2mm (WxDxH)
Certification	CE, FCC, RoHS

Fixed Wireless Internet 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