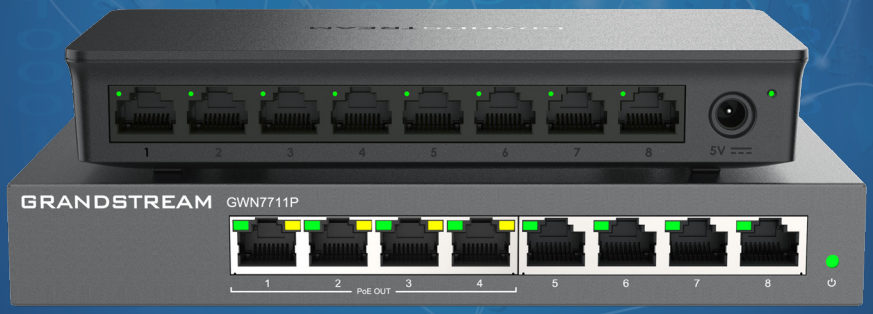
GRANDSTREAM
CONNECTING THE WORLD



Layer 2 Lite Managed Network Switches

GWN7711(P) Series

The GWN7711(P) series are Layer 2 Lite managed network switches that allow small-to-medium businesses to build scalable, secure, and smart business networks that are easy to use and cloud manageable. They support VLAN for flexible and sophisticated traffic segmentation, voice VLAN ensures VoIP connection quality, QoS for prioritization of network traffic, IGMP Snooping for network performance optimization, and comprehensive security capabilities against potential attacks. The GWN7711P provides 4 PoE ports for smart dynamic PoE output to power IP phones, IP cameras, Wi-Fi access points and other PoE endpoints. This PoE-capable model also supports 24V DC/48V DC passive PoE-out mode. The GWN7711(P) Series are easy to manage through the embedded controller, and is also supported by GDMS Networking and GWN Manager, Grandstream's cloud and on-premise network management platform. By supporting both desktop and wall-mount installation, these Layer 2 Lite switches are suitable for hotels, home offices, small-to-medium businesses, and more. Thanks to a comprehensive suite of customizable switching features, the GWN7711(P) series are the ideal managed network switches for small-to-medium sized deployments.

Gigabit

8 Gigabit Ethernet ports

PoE

Smart power control to support dynamic PoE/PoE+ power allocation per port for the PoE models

Supports Loop Detection, Cable Test and Port Mirror to quickly locate network faults

IGMP snooping to improve multicast forwarding efficiency

LLDP for automatic discovery, provisioning and management of endpoint devices

GDMS

GDMS Networking and GWN Manager, Grandstream's cloud and on-premise network management platforms; Embedded controller to manage switch

Broadcast/Multicast/Unicast Storm Control to monitor traffic levels

QoS

Built-in QoS allows for prioritization of network traffic

	 GWN7711	 GWN7711P
Network Protocol	IPv4, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1p, IEEE 802.3af, IEEE 802.3at	
Gigabit Ethernet Ports	8	
PoE Out Ports	/	4
Power Supply	External 5VDC/0.6A	External 48-53.5VDC/1.22A
PoE Output	/	• Port 1-4 support 802.3af/at standard PoE out: - Up to 30W per port PoE out , total 60W Power Budget • Port 1-4 support 24VDC Passive mode via UI - Port 1 (up to 30W): 24V 4pair VH mode 1.3A 4pair VH mode Pins: 1,2,4,5 (+) ; 3,6,7,8 (-) - Port 2-4 (up to 15W): 24V 2pair mode, 0.65A 2pair normal mode Pins: 4,5 (+); 7,8 (-) • Port 1 (Up to 60W), support 48V 4 pair passive mode
Max Total PoE Output Power	/	60W
Maximum Output Power per PoE Port	/	30W
Auxiliary Ports	1x Reset Pinhole	
Forwarding Mode	Store-and-forward	
Total non-blocking throughput	8Gbps	
Switching Capability	16Gbps	
Jumbo Frame	2K/3K/4K/5K/6K/7K/8//9K/12K/15K	
Forwarding Mode	11.9Mpps	
Packet Buffer	4Mb	
MAC	• 8K MAC address capacity	
VLAN	• Supports up to 32 VLANs (out of 4K VLAN IDs) • Port-based VLAN, 802.1Q VLAN • Voice VLAN	
LAG	4	
Multicast	IGMP Snooping, Report Message Suppression	
QoS	• Auto prioritization of the incoming port of the packet • Priority Mapping • Queue scheduling, including SP, WRR, WFQ • Supports port priority, 802.1p priority and DSCP priority • Bandwidth control • Rate limit	
DHCP	DHCP client	
Maintenance	Backup and restore, system reboot, factory reset, firmware upgrade, MAC address search, SNMP, LLDP Monitor port statistics, port mirroring, cable test, and ping	
Security	• Storm control • DHCP Snooping • Spanning tree • Loop prevention • PoE Watchdog • Kensington Security Slot (Kensington Lock) support	
Mounting	Desktop/Wall-mount	
LED Indicators	Per Port: Link/Activity - Green GWN7711P Port 1-4: PoE power state - Yellow Per Device: Power - Green	
Environmental	Operating Temperature: 0 to 40 °C (32 to 104 °F) Storage Temperature: -20 to 60 °C (-4 to 140 °F) Operating Humidity: 10% to 90% Non-condensing Storage Humidity: 10% to 90% Non-condensing	
Dimensions (LxWxH)	Unit: 164 x 80 x 30mm Package: 202 x 166 x 54mm	Unit: 190 x 100 x 28mm Package: 230 x 210 x 51mm
Enclosure	Plastic	Metal
Weight	Unit: 0.17kg Entire Package: 0.38kg	Unit: 0.44kg Entire Package: 0.92kg
Package Content	1x Switch, 1x QIG, 1x Power Adapter	
Compliance	FCC, CE, RCM, IC	

GWN7711(P) PoE & VLAN Feature

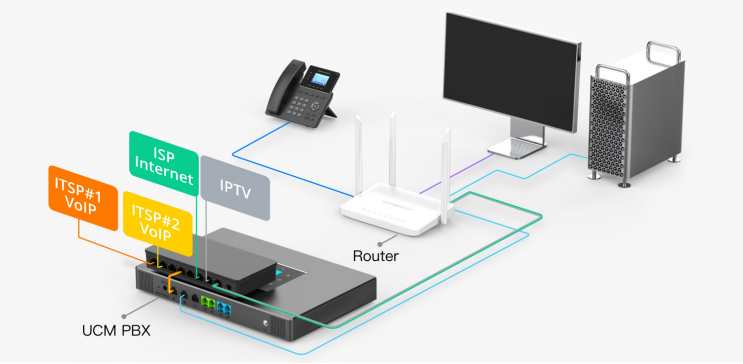
1. The switch will maintain PoE power supply during the soft restart to ensure data such as camera feeds are not lost.
2. Real-time dynamic display and control of PoE power to detect anomalies in a timely manner.
3. PoE port supports dynamic configuration for non-standard 24VDC/48VDC and 802.3af/at to ensure the compatibility with various APs and cameras.
4. Supports port VLAN and 802.1Q VLAN, allowing users to flexibly divide VLANs according to the requirements.

Passive PoE output Mode

PINS	T568A Color	T568B Color	2-Pair	4-Pair
1	white/green stripe	white/orange stripe		DC ⊕
2	green solid	orange solid		DC ⊕
3	white/orange stripe	white/green stripe		DC ⊖
4	blue solid	blue solid	DC ⊕	DC ⊕
5	white/blue stripe	white/blue stripe	DC ⊕	DC ⊕
6	orange solid	green solid		DC ⊖
7	white/brown stripe	white/brown stripe	DC ⊖	DC ⊖
8	brown solid	brown solid	DC ⊖	DC ⊖

*4-Pair: power on pins 1,2,4,5(+) 3,6,7,8(-) *2-Pair: power on pins 4,5(+) 7,8(-)

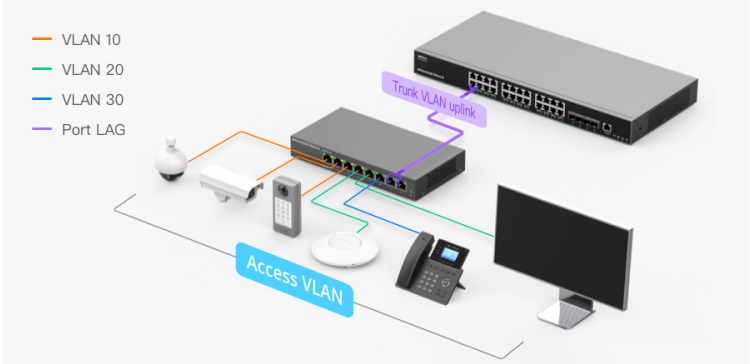
Deployment Case: 802.Q VLAN Trunk for Multi-Dedicated SIP Trunking



Using VLAN Trunking to merge multiple ITSP streams into a single port connecting to UCM, and merge Internet and IPTV into another port connecting to router and switch.

Port 1: Access VLAN 10 ITSP 1 SIP trunk
Port 2: Access VLAN 20 ITSP 2 SIP trunk
Port 4: Trunk VLAN(10/20) to UCM
Port 6: Access VLAN 30 Internet service
Port 7: Access VLAN 40 IPTV service
Port 8: Trunk VLAN(30/40) to Router

Deployment Case: PoE & VLAN Isolation for IP Camera



Use VLAN to isolate the IP Camera/Internet/IPTV traffic.
Use link aggregation to increase upstream bandwidth.

Port 1: 24V/48V 4 Pair Passive PoE Camera
Port 2: 24V 2 Pair Passive PoE Camera
Port 3: 802.3af PoE IP Video Intercom System
Port 4: Wireless 802.3af PoE AP
Port 5: Network Equipment PC, printer, etc.
Port 6: GRP VoIP Phone, etc.
Port 7-8: Uplink Aggregation Group