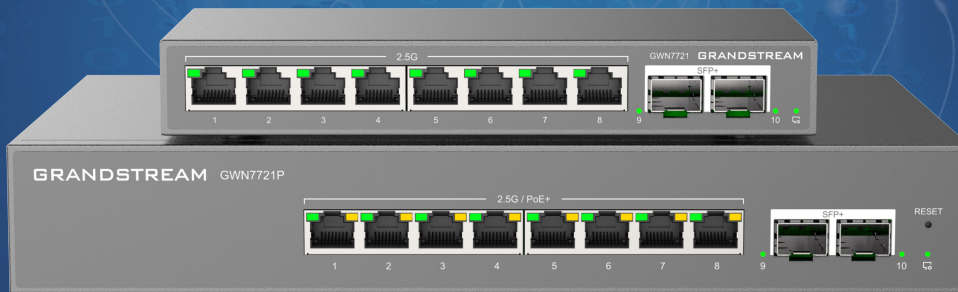# L2-Lite Managed 2.5Gigabit Switches

GWN7721(P)

The GWN7721(P) are 10-port Layer 2 Lite Managed Switches, equipped with 8x 2.5G Ethernet ports and 2x 10Gigabit SFP+ ports, suitable for small-to-medium businesses to build scalable, secure, and smart networks. These devices support complex VLAN traffic segmentation, integrate Port-based, DSCP/802.1p QoS priority management modes, and bandwidth control which greatly improving the overall network performance. Support IGMP Snooping and comprehensive security protection. The GWN7721P model's 8 Ethernet ports all support PoE power output, suitable for devices such as IP phones, cameras, and Wi-Fi access points. The GWN7721 and GWN7721P are easy to manage through the local web user interface, GWN Manager and the cloud using the Grandstream Device Management System (GDMS). The series support both desktop and wall-mount installations and are widely applicable in network construction scenarios across industries such as hotels, home offices, and small to medium-sized enterprises.

8x 2.5Gigabit Ethernet ports and 2x 10Gigabit SFP+ ports	GWN7721P ports 1-8 support PoE, smart power control to support dynamic PoE/PoE+ power allocation per port
Supports Loop Detection, Cable Test and Port Mirror to quickly locate network faults	SNMPv2 remote monitoring, fault diagnosis, configuration management
STP/RSTP to guarantee fast convergence, ensure network stability and provide link load balance	Supports convenient and intelligent local Web configuration, GWN Manager, and GDMS Netwoking Management
DHCP Snooping ensures DHCP packets are only allowed from trusted ports to keep the DHCP environment safe.	Built-in QoS allows for prioritization of network traffic

	GWN7721	GWN7721(P)
Network Protocol	IPv4, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1p, IEEE 802.3af, IEEE 802.3at	
2.5 Gigabit Ethernet Ports	8	
10Gigabit SFP+ Ports	2, supports 1Gbps/2.5Gbps/10Gbps	
Maximum no. of Supported Modules	SM-10G: 2 MM-10G: 2 RJ45-10G: 1	
PoE Out Ports	/	8
Power Supply	External 12VDC/1 A	Internal 110~220V AC
PoE Output	/	Port 1-8 support 802.3af/at standard PoE out: - Up to 30W per port PoE out
Max Total PoE Output Power	/	130W
Max Output Power per PoE Por	/	30W
Auxiliary Ports	1x Reset Pinhole	
Forwarding Mode	Store-and-forward	
Total non-blocking throughput	40Gbps	
Switching Capability	80Gbps	
Jumbo Frame	1518/2048/3072/4096/5120/6144/7168/8192/9216	
Forwarding Rate	59.52Mpps	
Pack Buffer	8Mb	
MAC	16K MAC address capacity	
VLAN	• Supports up to 32 VLANs (out of 4K VLAN IDs) • port-based VLAN, 802.1Q VLAN • DHCP Snooping	
LAG	5	
Multicast	IGMP Snooping ,Report Message Suppression	
QoS	• Auto prioritization of the incoming port of the packet • Priority Mapping • Queue scheduling, including SP, 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,Support MAC address search, SNMP, LLDP Monitoring including port statistics, port mirroring cable test, Ping	
Security	• DHCP Snooping • Spanning tree • Loop prevention • PoE Watchdog • Kensington Security Slot (Kensington Lock) support	
Mounting	Desktop/ Wall-Mount	Desktop/ Wall-Mount/Rack-Mount
LED Indicators	Per device: Power- Green Per port: Link/Activity - Green GWN7721P Port 1-8: PoE power state - Yellow	
Environmental	Operating Temperature: 0 to 45 °C (32 to 113 °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 (L x W x H)	Unit: 190 x 100 x 28mm Package: 300 x 130 x 53mm	Unit: 280 x 180 x 44mm Package: 361 x 195.5 x 52mm
Enclosure	Metal	
Weight	Unit: 0.52KG Entire Package: 0.74KG	Unit: 1.45KG Entire Package: 2.06KG
Package Content	1x Switch, 1x Power Adapter, 1x QIG	1x Switch, 1x 1.2m(10A) AC Cable, 1x Ground Cable, 4x Rubber Feet, 2x Lug Ear, 1x QIG
Compliance	FCC, CE, RCM, IC	

GWN7721(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. The PoE Watchdog function detection device is connected to the destination IP address. When the link fails, the PoE port will automatically cut off the power and restart.
4. Supports port VLAN and 802.1Q VLAN, allowing users to flexibly divide VLANs according to the requirements.

Deployment Case: 802.3af/at PoE+ Power and Data Transmission

Each Ethernet port provides up to 30W of 802.3af/at standard PoE+, and the optical port offers a transmission rate of up to 10 Gbps.

- **Port 1:** 2.5G Gaming PC
- **Port 3:** 802.3af/at PoE+ GRP VoIP Phone
- **Port 5:** 802.3af/at PoE Camera
- **Port 6:** 802.3af PoE IP Video Intercom System
- **Port 8:** Wireless 802.3af PoE WiFi 6/6E AP
- **Port 9:** 10Gbps SFP+ Port for NAS Transmission
- **Port 10:** SFP+ optical port 10Gbps rate transmission

Deployment Case: PoE Watchdog

Anomaly Detection: The PoE switch continuously monitors the network operation status of connected powered devices (such as cameras, APs, IP phones, etc.).

Automatic Restart: If a device fails to respond within the set time, PoE Watchdog will proactively cut off its power supply and reboot it to restore functionality.

Reduced Manual Intervention: Eliminates the need for manual power plugging/unplugging or on-site maintenance, enhancing network reliability.