



## 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.



**Gigabit**

8x 2.5Gigabit Ethernet ports and 2x 10Gigabit SFP+ ports



**PoE**

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 Networking 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)**

<b>Network Protocol</b>	IPv4, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1p, IEEE 802.3af, IEEE 802.3at	
<b>2.5 Gigabit Ethernet Ports</b>	8	
<b>10Gigabit SFP+ Ports</b>	2, supports 1Gbps/2.5Gbps/10Gbps	
<b>Maximum no. of Supported Modules</b>	SM-10G: 2 MM-10G: 2 RJ45-10G: 1	
<b>PoE Out Ports</b>	/	8
<b>Power Supply</b>	External 12VDC/1 A	Internal 110~220V AC
<b>PoE Output</b>	/	Port 1-8 support 802.3af/at standard PoE out: - Up to 30W per port PoE out
<b>Max Total PoE Output Power</b>	/	130W
<b>Max Output Power per PoE Port</b>	/	30W
<b>Auxiliary Ports</b>	1x Reset Pinhole	
<b>Forwarding Mode</b>	Store-and-forward	
<b>Total non-blocking throughput</b>	40Gbps	
<b>Switching Capability</b>	80Gbps	
<b>Jumbo Frame</b>	1518/2048/3072/4096/5120/6144/7168/8192/9216	
<b>Forwarding Rate</b>	59.52Mpps	
<b>Pack Buffer</b>	8Mb	
<b>MAC</b>	16K MAC address capacity	
<b>VLAN</b>	<ul style="list-style-type: none"> <li>• Supports up to 32 VLANs (out of 4K VLAN IDs)</li> <li>• port-based VLAN, 802.1Q VLAN</li> <li>• DHCP Snooping</li> </ul>	
<b>LAG</b>	5	
<b>Multicast</b>	IGMP Snooping ,Report Message Suppression	
<b>QoS</b>	<ul style="list-style-type: none"> <li>• Auto prioritization of the incoming port of the packet</li> <li>• Priority Mapping</li> <li>• Queue scheduling, including SP, WFQ</li> <li>• Supports port priority, 802.1P priority, and DSCP priority</li> <li>• Bandwidth control</li> <li>• Rate limit</li> </ul>	
<b>DHCP</b>	DHCP client	
<b>Maintenance</b>	Backup and restore, system reboot , Factory Reset,firmware upgrade,Support MAC address search, SNMP, LLDP Monitoring including port statistics, port mirroring cable test, Ping	
<b>Security</b>	<ul style="list-style-type: none"> <li>• DHCP Snooping</li> <li>• Spanning tree</li> <li>• Loop prevention</li> <li>• PoE Watchdog</li> <li>• Kensington Security Slot (Kensington Lock) support</li> </ul>	
<b>Mounting</b>	Desktop/ Wall-Mount	Desktop/ Wall-Mount/Rack-Mount
<b>LED Indicators</b>	Per device: Power- Green Per port: Link/Activity - Green GWN7721P Port 1-8: PoE power state - Yellow	
<b>Environmental</b>	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	
<b>Dimensions (L x W x H)</b>	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
<b>Enclosure</b>	Metal	
<b>Weight</b>	Unit: 0.52KG Entire Package: 0.74KG	Unit: 1.45KG Entire Package: 2.06KG
<b>Package Content</b>	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
<b>Compliance</b>	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.