

GWN7721 & GWN7721P & GWN7721PE

L2-Lite Managed Multi-Gigabit Switch



The GWN7721 Layer 2 Lite Managed Switch Series delivers robust, high-performance networking tailored for small to medium businesses. With a powerful 80 Gbps switching capacity, these switches provide the flawless connectivity and advanced features needed to build a truly scalable, secure, and intelligent network. For flexible power delivery, the GWN7721P(E) models feature PoE support for IP phones, cameras, and Wi-Fi access points. Advanced features like VLAN isolation, multi-layer QoS priority management, and bandwidth control greatly boost network performance and reliability. The series is further strengthened by security features such as IGMP snooping and storm control, and offers unparalleled management flexibility through multiple platforms.

Feature Highlights



Includes Loop Detection, Cable Testing, and Port Mirroring for simplified network troubleshooting.



Supports convenient and smart configuration through the local webpage, GWN Manager, and GDMS.



Available ports and power levels vary by model, including PoE, PoE+, and PoE++.



STP and RSTP offers faster convergence, ensuring network stability and link load balance.



Provides remote monitoring, fault diagnosis as well as configuration and management via SNMP.



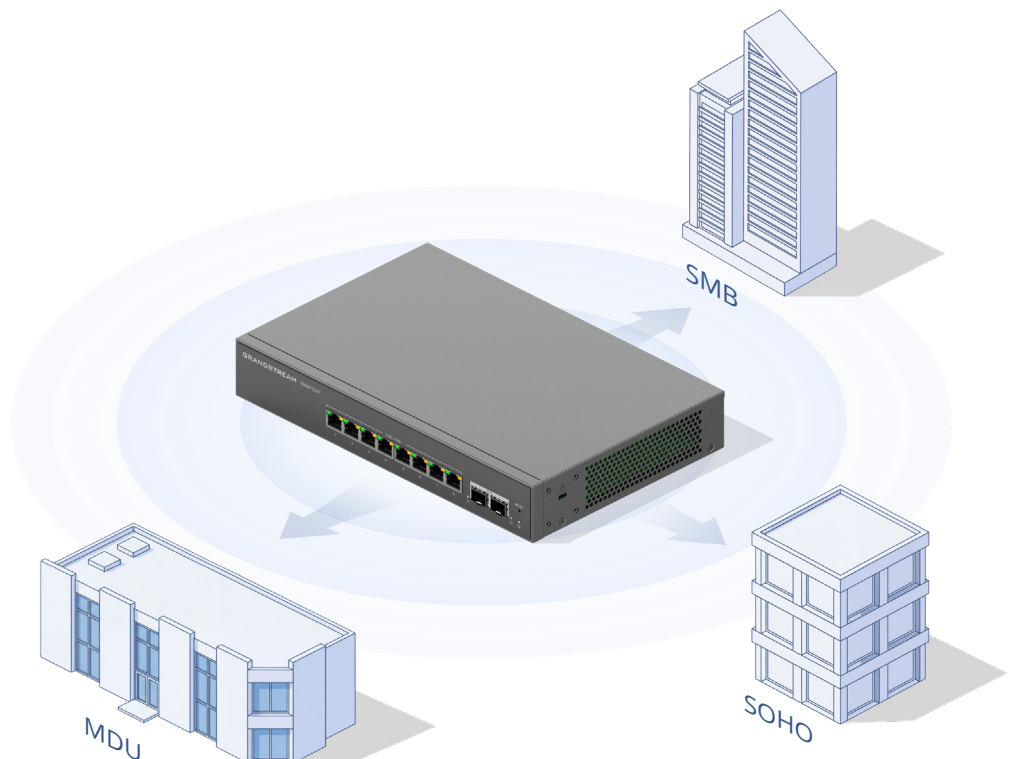
Built-in QoS enables the switch series to manage and prioritize different types of traffic.

Application Scenarios

The GWN7721 Series switches are versatile solutions for SOHO, SMB, and MDU environments.

The 2.5 GbE and 10 GbE ports on the switch provide the necessary connectivity for advanced Wi-Fi 6/7 access points. A dedicated 10G uplink then ensures bottleneck-free connection, which is crucial for handling concurrent traffic in MDUs.

Integrated PoE/PoE+/PoE++ support powers remote devices and simplifies cabling.

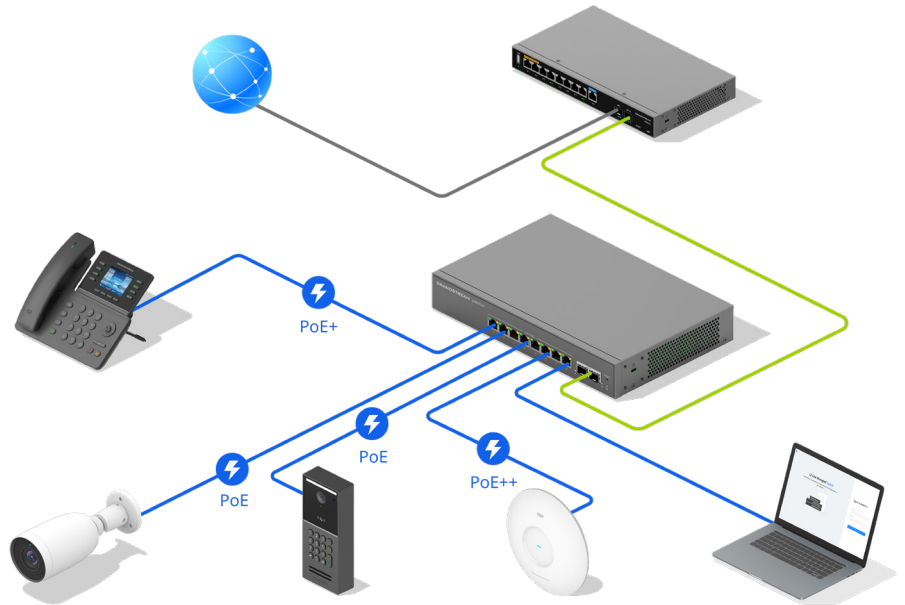


PoE and VLAN Features

1. 802.3af/at/bt PoE Power

The GWN7721 switch series can maintain PoE power during a soft reset. This ensures continuous operation of powered devices (such as IP cameras), preventing data loss or transmission gaps.

Real-time PoE power monitoring enables the detection of abnormalities and allows for quick adjustments to power distribution.



2. PoE Watchdog



Anomaly Detection

The PoE switch continuously monitors the network status of connected powered devices, such as cameras, APs, IP phones.



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.



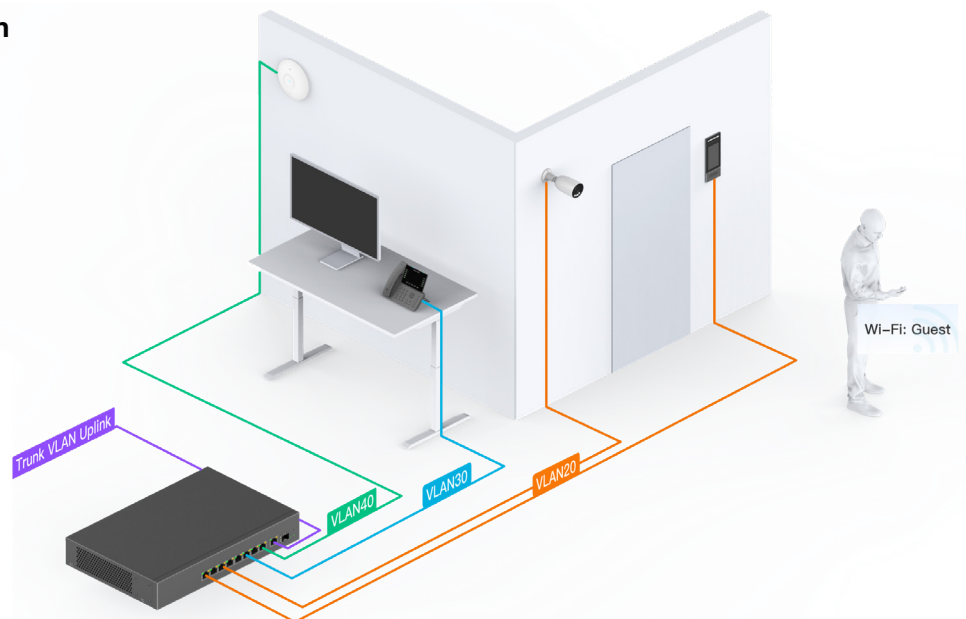
Minimized On-Site Maintenance

By automatically power-cycling unresponsive devices, the feature eliminates the need for physical resets, enhancing network uptime and reducing maintenance costs.

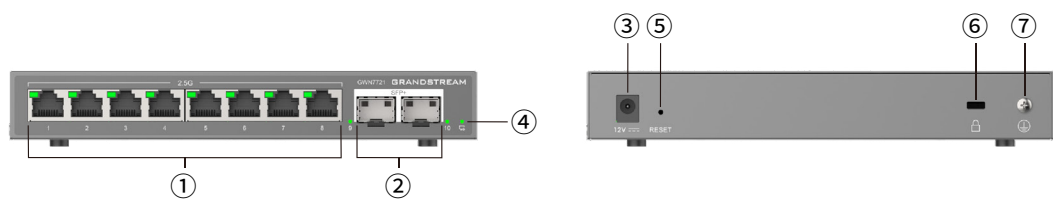
3. VLAN Transparent Mode and Isolation

Passes all VLAN traffic when VLAN transparent mode is enabled.

Supports VLAN isolation to optimize traffic for diverse services based on the actual needs, such as guest network, internal office network, VoIP call, IP camera network and access control system.

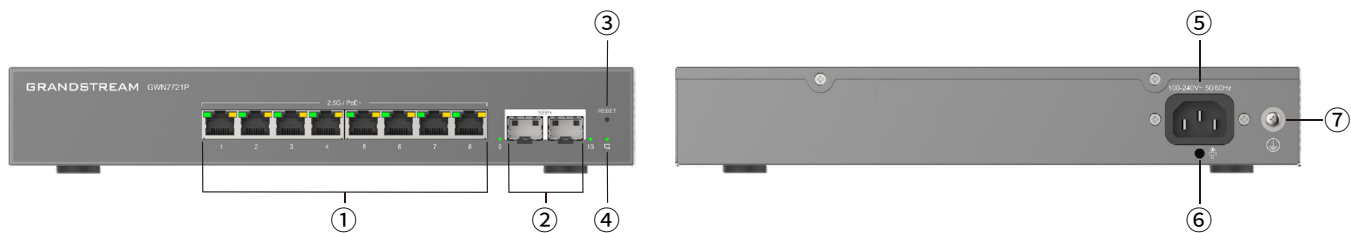


Hardware Overview



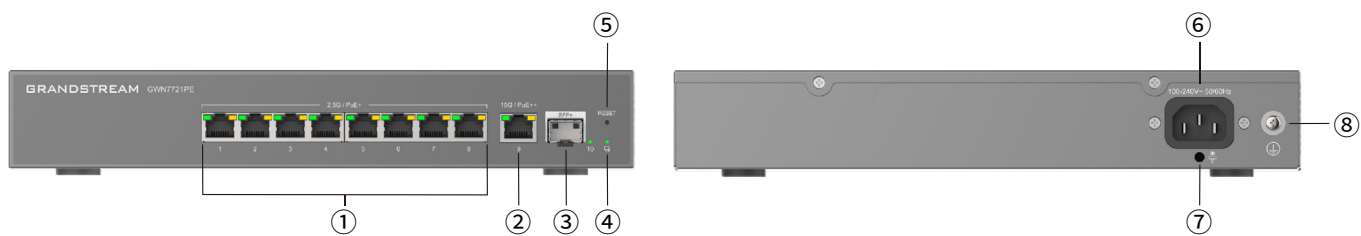
GWN7721

① 2.5 GbE	② SFP+	③ DC-IN	④ Power Indicator	⑤ Reset
⑥ Kensington Lock	⑦ Grounding			



GWN7721P

① 2.5 GbE/PoE+	② SFP+	③ Reset	④ Power Indicator	⑤ Power Socket
⑥ Cable Clamp Slot	⑦ Grounding			



GWN7721PE

① 2.5 GbE/PoE+	② 10 GbE/PoE++	③ SFP+	④ Power Indicator	⑤ Reset
⑥ Power Socket	⑦ Cable Clamp Slot	⑧ Grounding		

Technical Specifications

		GWN7721	GWN7721P	GWN7721PE	
Basic	Unit Dimension	190 mm × 100 mm × 28 mm (7.48" × 3.94 " × 1.10")(L × W × H)		280 mm × 180 mm × 44 mm (11.02" × 7.08 " × 1.73")(L × W × H)	
	Package Dimension	300 mm × 129.5 mm × 53 mm (11.81" × 5.10" × 2.09")		361 mm × 195.5 mm × 52 mm (14.21" × 7.70" × 2.05")	
	Unit Weight	0.6 kg (1.32 lb)		1.58 kg (3.48 lb)	1.848 kg (4.07 lb)
	Package Weight	0.767 kg (1.69 lb)		2.036 kg (4.49 lb)	2.088 kg (4.60 lb)
	Installation	Desktop, or wall mount		Desktop, wall mount, or rack mount	Desktop, or rack mount
Ports	Gigabit Ethernet Ports	8 × 2.5G			8 × 2.5G, 1 × 10G
	10G SFP+ Ports	2 × SFP+			1 × SFP+
	Max Number of Supported Modules	• SM-10G: 2 • MM-10G: 2 • RJ45-10G: 1			• SM-10G: 1 • MM-10G: 1 • RJ45-10G: 1
	Other Ports	1 × Reset Pinhole			
LED	System LED	1 tri-color LED for device tracking and status indication			
	Data Transferring LED	10 green LEDs			
	PoE Supply LED	N/A	8 yellow LEDs	9 yellow LEDs	
System	Flash	16 MB NOR Flash			
	RAM	1 MB RAM, built into CPU			
	CPU	400 MHz ARC CPU			
	Forwarding Mode	Store-and-forward			
	Total Non-blocking Throughput	40 Gbps			
	Switching Capability	80 Gbps			
	Packet Buffer	8 Mb			
Power Supply	Power Supply	12 V DC/1 A	100–240 V AC, 50/60 Hz		
	Max Power Consumption	12 V/12 W	N/A	N/A	
	Max Output Power	N/A	54 V/150 W		
PoE	PoE Standards	N/A	IEEE 802.3af/at	IEEE 802.3af/at/bt	
	PoE Ports	N/A	8	9	
	Max Output Power per PoE Port	N/A	30 W	30 W (Port 1–8), 90 W (Port 9)	
	Max Total PoE Output Power	N/A	130 W		
Environmental Endurance	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)			
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)			
	Humidity	10%–90% (RH), non-condensing			
	Surge Protection	±1 kV CM and ±1 kV DM for power supply 1 kV for network ports	±6 kV CM and ±6 kV DM for power supply ±2 kV for network ports		
	ESD	±12 kV for contact discharge			
Certification	Compliance	FCC, CE, RCM, IC			

Key Features

		GWN7721	GWN7721P	GWN7721PE
Protocols and Standards	Network Protocol	IPv4, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1p, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt		
Layer 2 Features	Switching	• Jumbo frame: 1518/2048/3072/4096/5120/6144/7168/8192/9216 • Up to 32 VLANs (out of 4K VLAN IDs), port-based VLAN, IEEE 802.1Q VLAN tagging • 16K MAC addresses • Supports link aggregation of up to 5 LAG groups and up to 8 members per LAG group • Spanning tree including STP, and RSTP		
	DHCP	DHCP client		
	Multicast	IGMP Snooping, Report Message Suppression		
	QoS	• Auto prioritization of the incoming port of the packet • Priority mapping, including 802.1p mapping, and DSCP mapping • Queue scheduling, including SP, and WFQ • Bandwidth control • Rate limit		
Security and Maintenance	Security	• Supports user hierarchical management, password protection and HTTP login • Port loopback detection • DHCP Snooping • PoE Watchdog • Kensington Security Slot (Kensington Lock) support • Firmware signature		
	Maintenance	• SNMP (SNMPv1 and SNMPv2c) • LLDP • Backup and restore • Diagnostics including Ping, port mirror, cable test, fiber module • System reboot • Supports upgrades via TFTP, HTTP, HTTPS, or local upload, as well as mass provisioning using DHCP Option, GDMS Networking, GWN Manager, or GWN series routers (pending)		
Management Platforms	Controller-Based Management	• Local Web GUI: Comes with the embedded controller • GWN series routers (pending): Supports using software controller to manage GWN7721 series switches through GWN7000 series routers and GCC 4-in-1 devices		
	Cloud Management	• GDMS Networking: Provides free cloud management platform for unlimited GWN7721 series switches • GWN Manager: Comes as an on-premises software controller • GWN App: Supports login to the app through GDMS Networking and GWN Manager to manage GWN7721 series switches		

Package Contents

		GWN7721	GWN7721P	GWN7721PE
Standard Items	Primary Unit	1 × Switch		
	Power and Cables	1 × Power Adapter	1 × 1.2 m (3.94 ft) AC Cable of 10 A	
		/	1 × 25 cm (9.84") Ground Cable	
		/	1 × Power Cable Clamp	
	Manual and License	1 × Simplified Quick Installation Guide 1 × Regulatory Information		
	Installation Accessories	/	2 × Extended-Rack-Mounting Kits	
		/	8 × Flat Head Machine Screws (M3 × 6 mm)	
		/	4 × Rubber Footpads	

Ordering Information

	Item	Description
GWN7721 Series	GWN7721	8 × 2.5 GbE, 2 × SFP+, L2 Lite-Managed Switch
	GWN7721P	8 × 2.5 GbE with PoE/PoE+, 2 × SFP+, L2 Lite-Managed PoE Switch
	GWN7721PE	8 × 2.5 GbE with PoE/PoE+, 1 × 10GbE with PoE/PoE+/PoE++, 1 × SFP+, L2 Lite-Managed PoE Switch
Optical Receiver & Cables	F-SM1310-20KM-1.25G	1.25G SFP LR, Single-Mode Fiber (20 km, 1,310 nm, duplex LC, DDM)
	F-MM850-550M-1.25G	1.25G SFP SR, Multi-Mode Fiber (0.3 km (OM1)/0.55 km (OM2), 850 nm, duplex LC, DDM)
	F-SM1310-10KM-10G	10G SFP+ LR, Single-Mode Fiber (10 km, 1,310 nm, duplex LC, DDM)
	F-MM850-300M-10G	10G SR SFP+, Multi-Mode Fiber (0.3 km, 850 nm, duplex LC, DDM)
	DAC-1M-10G	10G SFP+ Passive Direct Attach Copper Cable, 1-meter, 30 AWG
	DAC-3M-10G	10G SFP+ Passive Direct Attach Copper Cable, 3-meter, 26 AWG

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