





Enterprise Layer 3 Managed Network Switch **GWN7811(P) - GWN7812P - GWN7813(P)**

The GWN7810 series are Layer 3 managed network switches that allow medium-to-large enterprises to build scalable, secure, high performance and smart business networks that are fully manageable. It supports advanced VLAN for flexible and sophisticated traffic segmentation, advanced QoS for prioritization of network traffic, IGMP/MLD Snooping for network performance optimization, and comprehensive security capabilities against potential attacks. The PoE models provide smart dynamic PoE output to power IP phones, IP cameras, Wi-Fi access points and other PoE endpoints. GWN7810 series can be managed in a number of ways, including the local Web user interface of the GWN7810 series switch and CLI, the command-line interface. The series is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform. The GWN7810 series are the best value enterprise-grade managed network switches for medium-to-large businesses.



8/16/24 Gigabit Ethernet ports and 2/4 10Gigabit SFP+ ports



ARP Inspection, IP Source Guard, DoS protection, port security & DHCP snooping



Smart power control to support dynamic PoE/PoE+ power allocation per port for the PoE models, Ports 1-8 on the GWN7813P supports PoE++



Embedded controller to manage switch; GWN. Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform



Supports deployment in IPv6 and IPv4 networks



Built-in QoS allows for prioritization of network traffic

	GWN7811	GWN7811P	GWN7812P	GWN7813	GWN7813P	
Network Protocol		802.3i, IEEE 802.3u, IEEE 802				
Gigabit Ethernet Ports	802.1Q, IEEE 802.1w, IEEE 802.1d, IEEE 802.1s, IEE		16	3az, IEEE 802.3ad, IEEE 802.3AB, IEEE 802.1p, IEEE 802.1D, IEEE 802.1x		
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10Gigabit SFP+ Ports	Note: Supports DAC cable, and must be ≤ 5m					
Maximum no. of Supported Modules	MM-	.0G: 2 10G: 2 10G: 2	SM-10G: 4 MM-10G: 4 RJ45-10G: 2 Note: RJ45-10G modules must be interval inserted			
Console	1					
# of PoE Ports	/	8	16	/	24	
Link Aggregation		5	10	1	4	
External Redundant Power Supply(RPS)	/	/	/	12V/5A(60W)	54V(300W)	
Max Output Power per PoE Port	/	30W	30W	/	60W(1-8,PoE++) 30W(9-24)	
Max Total PoE Output Power	/	120W	240W	/	360W	
PoE Standards	/	IEEE 802.3af/at	IEEE 802.3af/at	/	IEEE 802.3af/at/bt	
Auxiliary Ports	1x Reset Pinhole					
Forwarding Mode	Store-and-forward					
Total non-blocking throughput Switching Capability	28Gbps 56Gbps		56Gbps 112Gbps	64Gbps 128Gbps		
Forwarding Rate		41.644Mpps			apps 2Mpps	
Packet Buffer		τινιμμο	83.328Mpps 12MB	95.23.	בוייואף	
Switching	• 16K static, dynamic and filtering MAC addresses • 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN • VLAN virtual interface • GVRP (pending) • Spanning tree, 32 instances for STP/RSTP/MSTP • Static routing					
Routing	Dynamic routing, including RIP, RIPng, OSPF and OSPFv3 Policy routing (pending)					
Multicast	• IGMP Snooping • MLD Snooping • MVR					
QoS/ACL	Rate limit KACL for Ethernet, IPv4 and IPv6					
DHCP	DHCP server, DHCP relay, DHCP Option 82, 60, 160 and 43 CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, diagnostics including Ping, Traceroute, port					
Maintenance	CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, diagnostics including Ping, Traceroute, port mirroring, UDLD (TBD) and copper test					
Security	User hierarchical management and password protection, HTTPS, SSH, Telnet 802.1X authentication AAA authentication including RADIUS, TACACS+ Storm control Port isolation, port security, sticky MAC Filtering MAC address IP source guard, DoS attack prevention, ARP inspection DHCP Snooping Loop protection including BPDU protection, root protection(pending) and loopback protection(pending) Kensington Security Slot (Kensington Lock) support					
Mounting						
System LEDs	1x tri-color LED for device tracking and status indication				DIVIDO DOS	
Power Supply LEDs		solar I FDs	204 979 150		power supply PWR&RPS	
Data Transferring LEDs	3	-color LEDs	20x green-color LEDs	28x green	color LEDs	
PoE Powered LEDs		8x yellow-color LEDs	16x yellow-color LEDs	/	24x yellow-color LEDs	
Environmental			2 45°C, humidity 10-90% RH(3	
Dimensions	330mm(L)x176mm(W)x44mm(H)		°C, humidity: 5% to 95% RH(Non-condensing) 440mm(L)x200mm(W)x44mm(H) 440mm(L)x300mm(V) x44mm(H)		440mm(L)x300mm(W)	
Unit Weight	1.45Kg	2.17Kg	3.03Kg	2.94Kg	4.69Kg	
Package Content	1x Switch 1x 1.2m(10A) AC Cable 1x 25cm Ground Cable 4x Rubber Footpads 1x Power Cord Anti-Trip					
		1x Console Cable(Optional) 2x Extended Rack-Mounting Kits 2x Rack-Mounting Kits 1x RPS, External Redundant Power Supply (Optional)				
Compliance	1		FCC, CE, RCM, IC, UKCA			

Features & Benefits

Powerful Business Processing Capabilities

- Routing including static routing, dynamic routing and policy routing to realize routing data communication between different network segments. Simpler, more efficient and more reliable.
- DHCP Server and Relay to assign IP address to hosts in the network.
- GVRP to realize VLAN dynamic distribution, registration and attribute propagation, reduce the amount of manual configuration, and ensure the correctness of configuration.
- QoS, including Port Priority, Priority Mapping, Queue Scheduling, Traffic Shaping and Rate Limit.
- ACL to realize the filtering of data packets by configuring matching rules, processing operations and time schedule, and provide flexible security access control policies.
- IGMP Snooping and MLD Snooping to meet the needs of multiterminal HD video surveillance and video conference.
- IPv6 to meet the needs of the network transition from IPv4 to IPv6.

Multiple Security Prevention Mechanism

- Static MAC table, dynamic MAC table to allow data transmission, and filter MAC table to avoid network attacks.
- Packet filtering based on binding of IP address, MAC address, VLAN and port.
- Dynamic ARP Inspection to protect against ARP spoofing and ARP flooding attacks such as gateway spoofing, man-in-the middle attacks and etc. that are common in LAN environment.
- IP Source Guard to prevent illegal address spoofing including IP/ MAC/VLAN spoofing and IP/VLAN spoofing.
- DoS Attack Defense, including Land Attack, Smurf Attack, TCP SYN Attack, Ping Flooding and more.
- 802.1X, RADIUS, AAA, TACACS+ authentications to provide authentication function for LAN devices.
- Supports port security. When the number of MAC addresses learned by a port reaches the maximum number, it will be set to error-down status automatically or stop learning to prevent MAC address attack and control the network traffic of the port.
- Supports DHCP Snooping. Only allow DHCP packets from trusted ports to keep the enterprise DHCP environment safe.

Diverse Reliability Protection

- STP/RSTP/MSTP to guarantee fast convergence, improve fault tolerance, ensure stable network and provide link load balance, and redundancy.
- ERPS (pending), loopback detection to identify and remove loops on the network.
- VRRP (pending) to minimize network downtime caused by gateway failure.
- Link aggregation to increase bandwidth, improve reliability and load balancing.
- Storm control to prevent traffic interruption caused by broadcast, multicast or certain unicast packets.

PoE Power Supply Capability (Only GWN7810P series support)

- PoE power supply and comply with the IEEE 802.3af/at/bt standards to meet the PoE power supply requirements of security monitoring, audio and video conferencing, wireless signal coverage and more scenarios.
- Supports setting user-defined time period to control the power supply of PoE port on Web GUI.
- Setting priority of PoE ports. When remaining power is insufficient, it will power the ports based on priorities.
- Users can configure the maximum power allowed per port. The maximum limit is 30w per port, even 60W for some port.
- · Dynamic power negotiation via LLDP-MED.

Easy Management and Maintenance

- Managed by Web GUI, CLI(Console, Telnet, SSH) and SNMP (v1/v2c/v3).
- Monitoring of CPU and memory usage. Support common networking tools such as Ping, Traceroute, UDLD(TBD) and Copper Test to analysis networking issues.
- Supports RMON, Syslog, traffic statistics and sFlow(pending) for network optimization.
- LLDP and LLDP-MED for automatic discovery, provisioning and management of endpoint devices.
- Managed by GWN.Cloud and GWN Manager.

IPv4/IPv6 Dual Protocol Stack

- IPv4 routing protocol, including IPv4 unicast routing to satisfy different networking needs.
- IPv6 routing protocols, including IPv6 unicast routing to satisfy different networking needs.
- Supports an IPv4, IPv6 or IPv4/IPv6 hybrid environment.