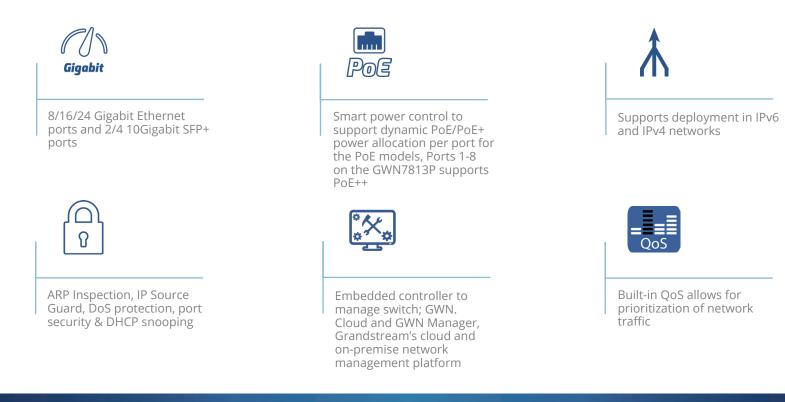






Enterprise Layer 3 Managed Network Switch GWN7811(P) - GWN7812P - GWN7813(P)

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.



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	GWN7811	GWN7811P	GWN7812P	GWN7813	GWN7813P	
Network Protocol		802.3i, IEEE 802.3u, IEEE 8 IEEE 802.1d, IEEE 802.1s, I				
Gigabit Ethernet Ports	8		16		24	
10Gigabit SFP+ Ports	2	2		4		
Console			1			
# of PoE Ports	/	8	16	/	24	
Link Aggregation	5	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 Forwarding Mode			1x Reset Pinhole Store-and-forward			
Total non-blocking throughput	28Gbps 56Gbps 64Gbps				Shns	
Switching Capability	56Gbps		112Gbps	128Gbps		
Forwarding Rate		41.644Mpps 83.328Mpps			95.232Mpps	
Packet Buffer			12MB	1		
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 Dynamic routing, including RIP, RIPng, OSPF and OSPFv3 Policy routing (pending) IGMP Snooping 					
Multicast	MLD Snooping MVR (pending) Port priority					
QoS/ACL	 Priority mapping Queue scheduling, includ Traffic shaping Rate limit 2K ACL for Ethernet, IPv4 		₹ and SP-WFQ			
QoS/ACL DHCP	• Queue scheduling, includ • Traffic shaping • Rate limit • 2K ACL for Ethernet, IPv4	and IPv6 DHCP server, DF	ICP relay, DHCP Option 82			
-	• Queue scheduling, includ • Traffic shaping • Rate limit • 2K ACL for Ethernet, IPv4	and IPv6 DHCP server, DF ring, SNMP, RMON, LLDP&	ICP relay, DHCP Option 82 LLDP-MED, backup and res	store, syslog, diagnostics ir	ncluding Ping, Tracerout	
DHCP	Queue scheduling, includ Traffic shaping Rate limit 2K ACL for Ethernet, IPv4 CPU and memory monitor User hierarchical manage 802.1X authentication AAA authentication includ Storm control Port isolation, port securi Filtering MAC address IP source guard, DoS atta DHCP Snooping Loop protection including	and IPv6 DHCP server, DH ring, SNMP, RMON, LLDP& port mirr ement and password prote ding RADIUS, TACACS+ ity, sticky MAC ack prevention, ARP inspect g BPDU protection, root pr	ICP relay, DHCP Option 82 LLDP-MED, backup and re- oring, UDLD (TBD) and cop ection, HTTPS, SSH, Telnet	store, syslog, diagnostics ir oper test		
DHCP Maintenance Security	Queue scheduling, includ Traffic shaping Rate limit 2K ACL for Ethernet, IPv4 CPU and memory monitor User hierarchical manage 802.1X authentication AAA authentication includ Storm control Port isolation, port securi Filtering MAC address IP source guard, DoS atta DHCP Snooping	and IPv6 DHCP server, DH ring, SNMP, RMON, LLDP& port mirr ement and password prote ding RADIUS, TACACS+ ity, sticky MAC ack prevention, ARP inspect g BPDU protection, root pr (Kensington Lock) support	ICP relay, DHCP Option 82 LLDP-MED, backup and re- oring, UDLD (TBD) and cop ection, HTTPS, SSH, Telnet	store, syslog, diagnostics ir oper test oback protection(pending)		
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DHCP Maintenance Security Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs PoE Powered LEDs Fan Environmental	Queue scheduling, includ Traffic shaping Rate limit 2K ACL for Ethernet, IPv4 CPU and memory monitor User hierarchical manage 802.1X authentication AAA authentication includ Storm control Port isolation, port securit Filtering MAC address IP source guard, DoS atta DHCP Snooping Loop protection including Kensington Security Slot / 10x green- / /	and IPv6 DHCP server, DH ring, SNMP, RMON, LLDP& port mirr ement and password prote ding RADIUS, TACACS+ ity, sticky MAC ack prevention, ARP inspect g BPDU protection, root pr (Kensington Lock) support Desktop, Wall-Moun 1x tri-color LED / color LEDs 8x yellow-color LEDs / Operation: 0°C to Storage: -10°C to 60	HCP relay, DHCP Option 82 LLDP-MED, backup and re- oring, UDLD (TBD) and cop ection, HTTPS, SSH, Telnet tion otection(pending) and loop t, or Rack-Mount(rack-mou of or device tracking and st / 20x green-color LEDs 16x yellow-color LEDs 2 45°C, humidity 10-90% RH °C, humidity: 5% to 95% R 440mm(L)x200n 3.03Kg	store, syslog, diagnostics in oper test oback protection(pending) unting kits included) atus indication 2x bi-color LEDs for per 28x green / / (Non-condensing) H(Non-condensing)	power supply PWR&RP -color LEDs 24x yellow-color LED 3 440mm(L)x300mm(V	
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DHCP Maintenance Security Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs PoE Powered LEDs Fan Environmental Dimensions Unit Weight	Queue scheduling, includ Traffic shaping Rate limit 2K ACL for Ethernet, IPv4 CPU and memory monitor User hierarchical manage 802.1X authentication AAA authentication includ Storm control Port isolation, port securit Filtering MAC address IP source guard, DoS atta DHCP Snooping Loop protection including Kensington Security Slot / 10x green- / 1.45Kg	and IPv6 DHCP server, DF ring, SNMP, RMON, LLDP& port mirr ement and password prote ding RADIUS, TACACS+ ity, sticky MAC ack prevention, ARP inspect g BPDU protection, root pr (Kensington Lock) support Desktop, Wall-Moun 1x tri-color LED / color LEDs 8x yellow-color LEDs / Operation: 0°C to Storage: -10°C to 60 nm(W)x44mm(H) 2.17Kg	HCP relay, DHCP Option 82 LLDP-MED, backup and re- coring, UDLD (TBD) and cop ection, HTTPS, SSH, Telnet tion otection(pending) and loop t, or Rack-Mount(rack-mou for device tracking and st / 20x green-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 2 45°C, humidity 10-90% RH °C, humidity: 5% to 95% R 440mm(L)x200n 3.03Kg 1x Switch 1x 1.2m(10A) AC Cable 1x 25cm Ground Cable 4x Rubber Footpads 1x Power Cord Anti-Trip 8x Screws (KM 3*6)	store, syslog, diagnostics in oper test oback protection(pending) unting kits included) atus indication 2x bi-color LEDs for per 28x green / / (Non-condensing) H(Non-condensing) hm(W)x44mm(H) 2.94Kg	power supply PWR&RP color LEDs 24x yellow-color LED 3 440mm(L)x300mm(W x44mm(H)	
DHCP Maintenance Security Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs PoE Powered LEDs Fan Environmental Dimensions Unit Weight	Queue scheduling, includ Traffic shaping Rate limit 2K ACL for Ethernet, IPv4 CPU and memory monitor User hierarchical manage 802.1X authentication AAA authentication includ Storm control Port isolation, port securi Filtering MAC address IP source guard, DoS atta DHCP Snooping Loop protection including Kensington Security Slot (and IPv6 DHCP server, DF ring, SNMP, RMON, LLDP& port mirr ement and password prote ding RADIUS, TACACS+ ity, sticky MAC ack prevention, ARP inspect g BPDU protection, root pr (Kensington Lock) support Desktop, Wall-Moun 1x tri-color LED / color LEDs 8x yellow-color LEDs / Operation: 0°C to Storage: -10°C to 60 nm(W)x44mm(H) 2.17Kg	HCP relay, DHCP Option 82 LLDP-MED, backup and re- coring, UDLD (TBD) and cop ection, HTTPS, SSH, Telnet tion otection(pending) and loop t, or Rack-Mount(rack-mou for device tracking and st / 20x green-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 2 45°C, humidity 10-90% RH °C, humidity: 5% to 95% R 440mm(L)x200n 3.03Kg 1x Switch 1x 1.2m(10A) AC Cable 1x 25cm Ground Cable 4x Rubber Footpads 1x Power Cord Anti-Trip 8x Screws (KM 3*6) 1x Quick Installation Guide	store, syslog, diagnostics in oper test oback protection(pending) unting kits included) atus indication 2x bi-color LEDs for per 28x green / / (Non-condensing) H(Non-condensing) h(W)x44mm(H) 2.94Kg 2.94Kg	power supply PWR&RP -color LEDs 24x yellow-color LED 3 440mm(L)x300mm(V x44mm(H)	

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.