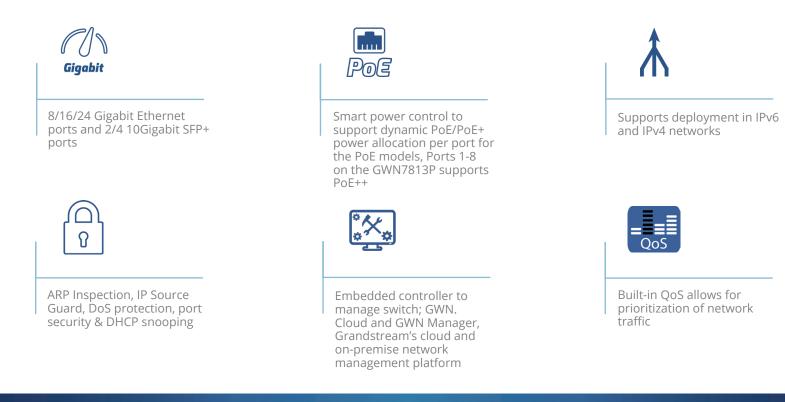






Enterprise Layer 3 Managed Network Switch GWN7811(P) - GWN7812P - GWN7813(P)

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.



www.grandstream.com

Network Protocol IPM_ (Mo) (E BC 2), IEE 8023, IEE 8032,		GWN7811	GWN7811P	GWN7812P	GWN7813	GWN7813P	
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Pot Standards / IEEE 802.34/ret Auxiliary Ports / IEEE 802.34/ret Starburk /	Max Output Power per PoE Port	1	30W	30W	/	60W(1-8,PoE++) 30W(9-24)	
Auxiliary Ports 1.4 Rest Phridue Forwarding Mode 3000000000000000000000000000000000000	Max Total PoE Output Power	/	120W	240W	/	360W	
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Forwarding Bate 41.64M/pps 83.32M/pps 95.232M/pps Packet Buffer 12MB Network Latency	0 01			•			
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Network Latency <4µs	<u> </u>				<i>33.</i> 23		
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Multicast MLD Snooping' MMC gending) Port priority Port priority priority Port priority priority priority priority Port priority pri	Routing	Dynamic routing, including RIP, RIPng, OSPF and OSPFv3 Policy routing (pending)					
•Priority mapping •Priority mapping •QuestAct •Priority mapping •QuestAct •Priority mapping •ZK ALL for Ethemet, IPv4 and IPv6 > •User hierarchical management and password protection, HTTP5, SSH, Teinet > •User hierarchical management and password protection, HTTP5, SSH, Teinet > •Storm control • > •Portisolation, port security, sticky MAC > > •Filtering MAC address > > •IP sonoping > > > •Loop protection including BPDU protection rot protection(pending) and loopback protection(pending) > > •Leop protection including BPDU protection receive support > > > •Mounting Porticolor including SP were color LEDs 20x green-color LEDs 28x green-color LEDs Porte Powered LEDs / 2 / 3 > Porte	Multicast	MLD Snooping MVR (pending)					
DHCP DHCP server, DHCP relay, DHCP Option 82, 60, 160 and 43 GPU and memory monitoring, SNMP, RMON, LLDPALLD-PMED, backup and restore, syslog diagnostics including Ping, Traceroute, mirroring, UDLD (TBD) and copper test •User hierarchical management and password protection, HTTPS, SSH, Telnet •802.1X authentication •AAA authentication •AAA authentication •AAA authentication •Port isolation, port security, sticky MAC •Pitring 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 Stot (Kensington Lock) support // 2xb icolor LEDs for per power supply PWR&R Power Supply LEDs / // 2xb icolor LEDs for per power supply PWR&R PoE Powered LEDs / // 2dx green-color LEDs 2dx green-color LEDs PoE Powered LEDs / & storage - 10°C to 45°C, humidity 10-90% RH(Non-condensing) 440mm(L)x300mm Munit Weight 1.45Kg 2.17Kg 3.03Kg 2.94Kg 4.490mm(L)x300mm Munit Weight 1.45Kg 2.17Kg 3.03Kg 2.94Kg 4.69Kg Munit Weight </th <th>QoS/ACL</th> <th colspan="5"> Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit </th>	QoS/ACL	 Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit 					
Maintenance User hierarchical management and password protection, HTTPS, SSH, Telnet • 002.1X authentication • AAA authentication including RADIUS, TACACS+ • Storm control • Port isolation, port security, sticky MAC • Port isolation, port security, sticky MAC • Port isolation, port security, sticky MAC • Port isolation, port security, sticky MAC • Port isolation, port security, sticky MAC • Pource guard, DoS attack prevention, ARP inspection • Port isolations, port security, sticky MAC • Pource guard, DoS attack prevention, ARP inspection • Port isolation port security Stor (Kensington Lock) support Mounting Desktop, Wall-Mount, or Rack-Mount(rack-mounting kits included) System LEDs 1 x tri-color LED for device tracking and status indication Power Supply LEDs / 2 x bi-color LEDs Poe Powered LEDs / 8 x yellow-color LEDs 28x green-color LEDs PoE Powered LEDs / 8 xyellow-color LEDs 24 xyellow-color LEDs 24 xyellow-color LEDs Environmental Storage: -10°C to 60°C, humidity: 5% to 95% RH(Non-condensing) 440mm(L)x300mm x44mm(H) Unit Weight 1.45Kg 2.17Kg 3.03Kg 2.94Kg 4.69Kg	DHCP			HCP relay, DHCP Option 82,	60, 160 and 43		
• User hierarchical management and password protection, HTTPS, SSH, Telnet • Variable including RADIUS, TACACS+ • Storm control • AA authentication including RADIUS, TACACS+ • Storm control • Storm control • Price Nation port security, sticky MAC • Filtering MAC address • Difference • Difference • Difference • Difference • System LEDs • Assign Security Stot (Kensington Lock) support • System LEDs • Thir-fool LED for device tracking and status indicatio • Power Supply LEDs / / / / / 2x bi-Color LEDs 28x green-color LEDs 28x green-color LEDs Power Supply LEDs / / / 2x bi-Color LEDs / / 8x yellow-color LEDs / / / 2x bi-Color LEDs / / / / 2x bi-Color LEDs / / / / / / 2x bi-Color LEDs	Maintenance	CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, diagnostics including Ping, Traceroute, p					
Mounting Desktop, Wall-Mount, or Rack-Mount(rack-munting kits included) System LEDs 1 tri-color LED for device tracking and starsing included Power Supply LEDs / 2x bi-color LEDs for pervers upply PWR&R Data Transferring LEDs 10x green-color LEDs 20x green-color LEDs 28x green-cler LEDs PoE Powered LEDs / 8x yellow-color LEDs 16x yellow-color LEDs / 24x yellow-color LED PoE Powered LEDs / 8x yellow-color LEDs 16x yellow-color LEDs / 24x yellow-color LED PoE Powered LEDs / 8x yellow-color LEDs 16x yellow-color LEDs / 30 Environmental . . Operation: 0°C to 45°C, humidity 10-90% RH(Non-condensing) Storage: -10°C to 60°C, humidity: 5% to 95% RH(Non-condensing) 440mm(L)x300mm Dimensions 330mm(L)x176mt(W)x44mm(H) 440mm(L)x44mm(H) 440mm(L)x44mm(H) Unit Weight 1.45Kg 2.17Kg 3.03Kg 2.94Kg 4.69Kg Package Content . . 1x 25m Ground Cable . . Tx 1.2m(10A) AC Cable Package Content . . .	Security	 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) 					
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Power Supply LEDs / / / / 2x bi-color LEDs for per ver supply PWR&R Data Transferring LEDs 10x green-color LEDs 20x green-color LEDs 28x green-color LEDs 24x yellow-color LEDs PoE Powered LEDs / 8x yellow-color LEDs 16x yellow-color LEDs / 24x yellow-color LEDs Fan / / 2 / 3 Operation: 0°C to 45°C, humidity 10-90% RH(Non-condensing) Storage: -10°C to 60°C, humidity: 5% to 95% RH(Non-condensing) 440mm(L)x300mm Dimensions 330mm(L)x176mm(W)x44mm(H) 440mm(L)x200mm (W)x44mm(H) 440mm(L)x300mm Unit Weight 1.45Kg 2.17Kg 3.03Kg 2.94Kg 4.69Kg 1x 12m(10A) AC Cable 1x 12m(10A) AC Cable 1x 25cm Ground Cable 1x 25cm Ground Cable 1x 25cm Ground Cable 1x 20mm Tx Power Cord Anti-Trip 8x Screws (KM 3*6) 1x Quick Installation Guide 2x Extended Rac-Mounting Kits 2x Rack-Mounting Kits							
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1x Console Cable(Optional) 2x Extended Rack-Mounting Kits / 1x RPS, External Redundant Power Supply (Optional)		1x 1.2m(10A) AC Cable 1x 25cm Ground Cable 4x Rubber Footpads 1x Power Cord Anti-Trip 8x Screws (KM 3*6)					
		2v Extended Ba	1x Console Cable(Optional) 2x Extended Rack-Mounting Kits 2x Rack-Mounting Kits				
Compliance FCC, CE, RCM, IC, UKCA					· · ·	nt Dower Guard (Out)	

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.