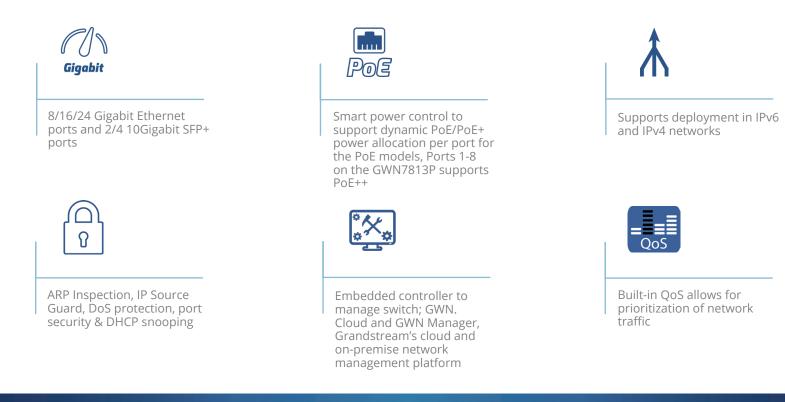






# Enterprise Layer 3 Managed Network Switch GWN7811(P) - GWN7812P - GWN7813(P)

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

	GWN7811	GWN7811P	GWN7812P	GWN7813	GWN7813P	
Network Protocols			802.3ab, IEEE 802.3z, IEEE .3az, IEEE 802.3ad, IEEE 802		E 802.1p, IEEE 802.1Q, IEEE 802.1w, IE	
PoE Standards		IEEE 802.3af/at	IEEE 802.3af/at	/	IEEE 802.3af/at/bt	
Gigabit Ethernet Ports		8	16	1	24	
10Gigabit SFP+ Ports		2		4		
			ote: Supports DAC cable, a			
	SM-10G: 2 SM-10G: 4 MM-10G: 2 MM-10G: 4					
Maximum no. of Supported Mo- dules						
uules	Note: RJ45-10G modules must be interval inserted					
Console	1					
# of PoE Ports		8	16	/	24	
Link Aggregation		5	10		14	
External Redundant Power	/	/	/	12V/5A(60W)	54V(300W)	
Supply( RPS)				× 7	60W(1-8,PoE++)	
Max Output Power per PoE Port	/	30W	30W	/	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	
Surge Protection			± 6KV CM and DM fo			
<u> </u>			± 4KV CM for netwo			
ESD Auxiliary Ports			± 12KV for contact d 1x Reset Pinho	U		
Forwarding Mode			Store-and-forw			
Total non-blocking throughput	28Gbps 56Gbps 64Gbps				64Gbps	
Switching Capability		ibps	112Gbps		128Gbps	
Forwarding Rate		4Mpps	83.328Mpps		95.232Mpps	
Packet Buffer			12MB			
Network Latency		<4µs				
Switching	<ul> <li>16K static, dynamic and filtering MAC addresses</li> <li>4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN</li> <li>VLAN virtual interface</li> <li>GVRP (pending)</li> <li>Spanning tree, 32 instances for STP/RSTP/MSTP</li> <li>Static routing</li> </ul>					
Routing	Dynamic routing, including RIP, RIPng, OSPF and OSPFv3     Policy routing (pending)					
Multicast	<ul> <li>IGMP Snooping</li> <li>MLD Snooping</li> </ul>					
	MVR (pending)     Port priority					
QoS/ACL	<ul> <li>Port priority</li> <li>Priority mapping</li> <li>Queue scheduling, inclu</li> <li>Traffic shaping</li> <li>Rate limit</li> </ul>	ding SP, WRR, WFQ, SP-WI	RR and SP-WFQ			
	<ul> <li>Port priority</li> <li>Priority mapping</li> <li>Queue scheduling, inclu</li> <li>Traffic shaping</li> </ul>	4 and IPv6		tion 82 60 160 and 43		
QoS/ACL DHCP Maintenance	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPI Land memory more	4 and IPv6 DHCP se	rver, DHCP relay, DHCP Op	nd restore, syslog, diagnos	stics including Ping, Traceroute, port	
DHCP	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manag     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includin	4 and IPv6 DHCP se ponitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC tack prevention, ARP inspe	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection	nd restore, syslog, diagnos d copper test	stics including Ping, Traceroute, port	
DHCP Maintenance	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manag     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS at     DHCP Snooping     Loop protection includir     Kensington Security Slov	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC ack prevention, ARP inspe- ng BPDU protection, root p (Kensington Lock) suppoi Desktop, Wa	rver, DHCP relay, DHCP Op _DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and loo rt II-Mount, or Rack-Mount(ra	d restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits included	g)	
DHCP Maintenance Security Mounting System LEDs	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manag     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includi     Kensington Security Slo	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC ack prevention, ARP inspe- ng BPDU protection, root p (Kensington Lock) suppoi Desktop, Wa	rver, DHCP relay, DHCP Op _DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection ection	nd restore, syslog, diagnos d copper test opback protection(pendin nck-mounting kits includer and status indication	g) d)	
DHCP Maintenance Security Mounting System LEDs Power Supply LEDs	<ul> <li>Port priority</li> <li>Priority mapping</li> <li>Queue scheduling, inclu</li> <li>Traffic shaping</li> <li>Rate limit</li> <li>2K ACL for Ethernet, IPv</li> <li>CPU and memory models</li> <li>Storm control</li> <li>Port isolation, port secution</li> <li>Filtering MAC address</li> <li>IP source guard, DoS att</li> <li>DHCP Snooping</li> <li>Loop protection includit</li> <li>Kensington Security Slove</li> </ul>	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC ack prevention, ARP inspe- ng BPDU protection, root p (Kensington Lock) suppoi Desktop, Wa 1x tri-co	rver, DHCP relay, DHCP Op _DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and loo rt II-Mount, or Rack-Mount(ra plor LED for device tracking /	nd restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer ; and status indication 2x bi-color LEDs	g) d) for per power supply PWR&RPS	
DHCP Maintenance Security Mounting System LEDs	<ul> <li>Port priority</li> <li>Priority mapping</li> <li>Queue scheduling, inclu</li> <li>Traffic shaping</li> <li>Rate limit</li> <li>2K ACL for Ethernet, IPv</li> <li>CPU and memory models</li> <li>Storm control</li> <li>Port isolation, port secution</li> <li>Filtering MAC address</li> <li>IP source guard, DoS att</li> <li>DHCP Snooping</li> <li>Loop protection includit</li> <li>Kensington Security Slove</li> </ul>	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC ack prevention, ARP inspe- ng BPDU protection, root p (Kensington Lock) suppoi Desktop, Wa	rver, DHCP relay, DHCP Op _DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and loo rt II-Mount, or Rack-Mount(ra	nd restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer ; and status indication 2x bi-color LEDs	g) d)	
DHCP Maintenance Security Mounting System LEDs Power Supply LEDs	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includii     Kensington Security Slo     /     10x green	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC ack prevention, ARP inspe- ng BPDU protection, root p (Kensington Lock) suppoi Desktop, Wa 1x tri-co	rver, DHCP relay, DHCP Op _DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and loo rt II-Mount, or Rack-Mount(ra plor LED for device tracking /	nd restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer ; and status indication 2x bi-color LEDs	g) d) for per power supply PWR&RPS	
DHCP Maintenance Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includii     Kensington Security Slo     /	4 and IPv6 DHCP se onitoring, SNMP, RMON, Li gement and password pro uding RADIUS, TACACS+ rity, sticky MAC cack prevention, ARP inspe is gBPDU protection, root p t (Kensington Lock) suppor Desktop, Wa 1x tri-co / color LEDs	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and loo rt II-Mount, or Rack-Mount(ra olor LED for device tracking / 20x green-color LEDs	nd restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer and status indication 2x bi-color LEDs 28b	g) d) for per power supply PWR&RPS « green-color LEDs	
DHCP Maintenance Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs PoE Powered LEDs Fan	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includii     Kensington Security Slo     /	4 and IPv6 DHCP se onitoring, SNMP, RMON, Li gement and password pro uding RADIUS, TACACS+ rity, sticky MAC cack prevention, ARP inspe to gBPDU protection, root p (Kensington Lock) suppor Desktop, Wa 1x tri-co / color LEDs 8x yellow-color LEDs /	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and loc rt II-Mount, or Rack-Mount(ra olor LED for device tracking / 20x green-color LEDs 16x yellow-color LEDs	nd restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer and status indication 2x bi-color LEDs 28x / /	g) d) for per power supply PWR&RPS < green-color LEDs 24x yellow-color LEDs 3	
DHCP Maintenance Security Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs PoE Powered LEDs	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includii     Kensington Security Slo     /	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro Jding RADIUS, TACACS+ rity, sticky MAC ack prevention, ARP inspe- ng BPDU protection, root p (Kensington Lock) suppoi Desktop, Wa 1x tri-co / color LEDs 8x yellow-color LEDs / Operation:	rver, DHCP relay, DHCP Op _DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and low rt II-Mount, or Rack-Mount(ra olor LED for device tracking / 20x green-color LEDs 16x yellow-color LEDs 2	d restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer ; and status indication 2x bi-color LEDs 28x / / / 00% RH(Non-condensing)	g) d) for per power supply PWR&RPS & green-color LEDs 24x yellow-color LEDs 3	
DHCP Maintenance Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs PoE Powered LEDs Fan	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includit     Kensington Security Slo     /	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro Jding RADIUS, TACACS+ rity, sticky MAC ack prevention, ARP inspe- ng BPDU protection, root p (Kensington Lock) suppoi Desktop, Wa 1x tri-co / color LEDs 8x yellow-color LEDs / Operation:	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and low rt II-Mount, or Rack-Mount(ra plor LED for device tracking / 20x green-color LEDs 16x yellow-color LEDs 2 0°C to 45°C, humidity 10-	d restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer and status indication 2x bi-color LEDs 28x / / / 0% RH(Non-condensing) 95% RH(Non-condensing)	g) d) for per power supply PWR&RPS & green-color LEDs 24x yellow-color LEDs 3	
DHCP Maintenance Security Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs PoE Powered LEDs Fan Environmental Dimensions	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includi     Kensington Security Slo     /	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC cack prevention, ARP inspe ag BPDU protection, root p t (Kensington Lock) suppor Desktop, Wa 1x tri-cc / color LEDs 8x yellow-color LEDs / Operation: Storage: -10 nm(W)x44mm(H)	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned ection protection(pending) and loc rt II-Mount, or Rack-Mount(ra olor LED for device tracking / 20x green-color LEDs 16x yellow-color LEDs 2 0°C to 45°C, humidity 10-1 °C to 60°C, humidity 5% to 440mm(L)x200m	d restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer ; and status indication 2x bi-color LEDs 28x / / 00% RH(Non-condensing) 95% RH(Non-condensing) m(W)x44mm(H)	g) d) for per power supply PWR&RPS < green-color LEDs 24x yellow-color LEDs 3 3 3) 440mm(L)x300mm(W)x44mm(H)	
DHCP Maintenance Security Security Mounting System LEDs Power Supply LEDs Data Transferring LEDs Data Transferring LEDs Fan Environmental	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includi     Kensington Security Slo     /         10x green     /         1.45Kg	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC cack prevention, ARP inspe to (Kensington Lock) suppor Desktop, Wa 1x tri-co / color LEDs 8x yellow-color LEDs / Operation Storage: -10	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned or tection (pending) and loo rt II-Mount, or Rack-Mount(ra blor LED for device tracking // 20x green-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 2 0°C to 45°C, humidity 10- °C to 60°C, humidity 5% to 440mm(L)x200m 3.03Kg 1x Switch 1x 1.2m(10A) AC 1x 25cm Ground 4x Rubber Footg 1x Power Cord An 8x Screws (KM	d restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer ; and status indication 2x bi-color LEDs 28x / / / 00% RH(Non-condensing) 95% RH(Non-condensing) 95% RH(Non-condensing) 95% RH(Non-condensing) (W)x44mm(H) 2.94Kg Cable Cable Cable Cable Cable Cable	g) d) for per power supply PWR&RPS c green-color LEDs 24x yellow-color LEDs 3	
DHCP Maintenance Security Mounting System LEDs Data Transferring LEDs Data Transferring LEDs PoE Powered LEDs Fan Environmental Dimensions Unit Weight	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includi     Kensington Security Slo     /         10x green     /         1.45Kg	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC cack prevention, ARP inspe ag BPDU protection, root p t (Kensington Lock) suppor Desktop, Wa 1x tri-cc / color LEDs 8x yellow-color LEDs / Operation: Storage: -10 nm(W)x44mm(H)	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned protection(pending) and loc rt Il-Mount, or Rack-Mount(ra bior LED for device tracking // 20x green-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 2 0°C to 45°C, humidity 10- °C to 60°C, humidity: 5% to 440mm(L)x200m 3.03Kg 1x Switch 1x 1.2m(10A) AC 1x 25cm Ground 4x Rubber Footp 1x Power Cord An 8x Screws (KM 3 1x Quick Installation	d restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer and status indication 2x bi-color LEDs 28x / / / 00% RH(Non-condensing) 95% RH(Non-condens	g) d) for per power supply PWR&RPS < green-color LEDs 24x yellow-color LEDs 3 3 3) 440mm(L)x300mm(W)x44mm(H)	
DHCP Maintenance Security Mounting System LEDs Data Transferring LEDs Data Transferring LEDs PoE Powered LEDs Fan Environmental Dimensions Unit Weight	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includi     Kensington Security Slo     /         10x green     /         1.45Kg	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC tack prevention, ARP inspe tag BPDU protection, root p t (Kensington Lock) suppoi Desktop, Wa Desktop, Wa 1x tri-cc / color LEDs 8x yellow-color LEDs / Operation Storage: -10 nm(W)x44mm(H) 2.17Kg	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned or tection (pending) and loo rt II-Mount, or Rack-Mount(ra blor LED for device tracking // 20x green-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 2 0°C to 45°C, humidity 10- °C to 60°C, humidity 5% to 440mm(L)x200m 3.03Kg 1x Switch 1x 1.2m(10A) AC 1x 25cm Ground 4x Rubber Footg 1x Power Cord An 8x Screws (KM	nd restore, syslog, diagnos d copper test opback protection(pendin inck-mounting kits includer and status indication 2x bi-color LEDs 28x / / 00% RH(Non-condensing) 95% RH(Non-condensing) 95% RH(Non-condensing) 095% RH(Non-condensing) (W)x44mm(H) 2.94Kg Cable Cable Cable ti-Trip ti-Trip ti-Trip ti-Trip ti-Trip ti-Trip	g) d) for per power supply PWR&RPS & green-color LEDs 24x yellow-color LEDs 3 g) 440mm(L)x300mm(W)x44mm(H) 4.69Kg	
DHCP Maintenance Security Mounting System LEDs Data Transferring LEDs Data Transferring LEDs PoE Powered LEDs Fan Environmental Dimensions Unit Weight	Port priority     Priority mapping     Queue scheduling, inclu     Traffic shaping     Rate limit     2K ACL for Ethernet, IPv     CPU and memory mo     User hierarchical manage     802.1X authentication     AAA authentication inclu     Storm control     Port isolation, port secu     Filtering MAC address     IP source guard, DoS att     DHCP Snooping     Loop protection includi     Kensington Security Slo     /         10x green     /         1.45Kg	4 and IPv6 DHCP se onitoring, SNMP, RMON, LI gement and password pro uding RADIUS, TACACS+ rity, sticky MAC cack prevention, ARP inspe ag BPDU protection, root p t (Kensington Lock) suppor Desktop, Wa 1x tri-cc / color LEDs 8x yellow-color LEDs / Operation: Storage: -10 nm(W)x44mm(H)	rver, DHCP relay, DHCP Op DP&LLDP-MED, backup ar mirroring, UDLD (TBD) an tection, HTTPS, SSH, Telned protection(pending) and loc rt Il-Mount, or Rack-Mount(ra bior LED for device tracking // 20x green-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 16x yellow-color LEDs 2 0°C to 45°C, humidity 10- °C to 60°C, humidity: 5% to 440mm(L)x200m 3.03Kg 1x Switch 1x 1.2m(10A) AC 1x 25cm Ground 4x Rubber Footp 1x Power Cord An 8x Screws (KM 3 1x Quick Installation	d restore, syslog, diagnos d copper test opback protection(pendin ack-mounting kits includer ; and status indication 2x bi-color LEDs 28x / / 00% RH(Non-condensing) 95% RH(Non-condensing) 95% RH(Non-condensing) (W)x44mm(H) 2.94Kg Cable Cabl	g) d) for per power supply PWR&RPS & green-color LEDs 24x yellow-color LEDs 3 g) 440mm(L)x300mm(W)x44mm(H) 4.69Kg	

### **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.