





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 Protocols			802.3ab, IEEE 802.3z, IEEE 3az, IEEE 802.3ad, IEEE 80		E 802.1p, IEEE 802.1Q, IEEE 802.1w, IEEE 02.1D, IEEE 802.1x	
PoE Standards	/	IEEE 802.3af/at	IEEE 802.3af/at	/	IEEE 802.3af/at/bt	
Gigabit Ethernet Ports		2	16	4	24	
10Gigabit SFP+ Ports	0.1.4		te: Supports DAC cable, a			
Maximum no. of Supported Mo-	SM-1 MM-1			SM-10G: 4 MM-10G: 4		
dules	RJ45-10G: 2 RJ45-10G: 2					
Console			Note 1	: RJ45-10G modules must	be interval inserted	
# of PoE Ports	/	8	16	/	24	
Link Aggregation External Redundant Power	Ę		10		14	
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 ± 6KV CM and DM fo	or nower	IEEE 802.3af/at/bt	
Surge Protection			± 4KV CM for netwo	ork ports		
ESD Auxiliary Ports	± 12KV for contact discharge 1x Reset Pinhole					
Forwarding Mode		Store-and-forward			ırd	
Total non-blocking throughput Switching Capability		bps	56Gbps	64Gbps		
Forwarding Rate	41.644	bps Mpps	112Gbps 83.328Mpps		128Gbps 95.232Mpps	
Packet Buffer		Is Is a	12MB			
Network Latency	- 10K static dimansis and	filtoring NAAC addrages	<4µs			
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 					
Routing	 Static routing Dynamic routing, including RIP, RIPng, OSPF and OSPFv3 Policy routing (pending) IGMP Snooping 					
Multicast	• MLD Snooping • MVR (pending)					
QoS/ACL	 Port priority Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit 2K ACL for Ethernet, IPv4 and IPv6 					
DHCP	DHCP server, DHCP relay, DHCP Option 82, 60, 160 and 43					
Maintenance	CPU and memory mo	nitoring, SNMP, RMON, LL			stics including Ping, Traceroute, port	
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 Desktop, Wall-Mount, or Rack-Mount(rack-mounting kits included)					
System LEDs		· · · · · · · · · · · · · · · · · · ·	olor LED for device tracking		ω,	
Power Supply LEDs	/	/	1	2x bi-color LEDs	for per power supply PWR&RPS	
Data Transferring LEDs	10x green-	color LEDs	20x green-color LEDs	28:	x green-color LEDs	
PoE Powered LEDs	/	8x yellow-color LEDs	16x yellow-color LEDs	/	24x yellow-color LEDs	
Fan	/	/ Operation:	2 0°C to 45°C, humidity 10-	/ 90% RH(Non-condensing)	3	
Environmental			°C to 60°C, humidity: 5% to			
Dimensions	330mm(L)x176mm(W)x44mm(H) 440mm(L)x200mm(W)x44mm(H) 440mm(L)x300mm(W)x44mm(H)			440mm(L)x300mm(W)x44mm(H)		
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 8x Screws (KM 3*6) 1x Quick Installation Guide					
1x Console Cable(Optional) 2x Extended Rack-Mounting Kits 2x Rack-Mounting Kits					ng Kits	
Compliance	/ 1x RPS, External Redundant Power Supply (Optional)					





Enterprise Layer 3 Managed Network Switch **GWN7816(P)**

The GWN7816(P) are 48-port 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 GWN7816P provids smart dynamic PoE output to power IP phones, IP cameras, Wi-Fi access points and other PoE endpoints. The GWN7816(P) can be managed in several ways, including the local Web user interface of the switch, and CLI, the command-line interface. It is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform. With an advanced set of features, comprehensive security protection, and flexible management options, the GWN7816(P) is ideal for enterprises and medium-to-large businesses who require high-performance networks with maximum capacity and control.



48 Gigabit Ethernet ports and 6 Gigabit SFP+ ports



Smart power control to support dynamic PoE/PoE+, PoE++ (GWN7816P) power allocation per port for the PoE models



Supports deployment in IPv6 and IPv4 networks



Reliability features including fault detection, device protection, dual boot, dual system file redundancy, link aggregation, storm control, and more



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



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



Built-in QoS allows for prioritization of network traffic



Supports stacking (pending) for easy management on one interface while creating redundant backup between multiple devices

	GWN7816	GWN7816P			
Network Protocols	IPv4, IPv6, IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.	 3z, IEEE 802.3ae, IEEE 802.3az, IEEE 802.3ad, IEEE 802.3x, IEEE 802.1p,			
PoE Standards					
Gigabit Ports	4				
SFP+ Ports	6				
	Note: Support DAC cable, and must be ≤ 5m SM-10G: 6				
Maximum Amount of	MM-10G: 6 RJ45-10G: 3				
Supported Modules	Note: RJ45-10G modules must be interval inserted				
Console					
# of PoE Ports	/ 1 PSU of 70W by default, support 1 Hot swap PSU(Purchased	48 1 PSU of 920W by default, support 1 Hot swap PSU(Purchased			
PSUs	Separately)	Separately) 60W(1-8,PoE++)			
Maximum Output Power Per PoE Port	/	30W(9-48)			
Max Total PoE Output Power	/	740W with 1 PSU			
PoE Standards	/ IEEE 802.3af/at/bt				
Surge Protection	± 4KV CM for network ports				
ESD Auxiliary Ports	± 12KV for contact discharge 1x Reset Pinhole				
Forwarding Mode	Store-and-forward				
Total non-blocking throughput	108Gbps				
Switching Capability Forwarding Rate	216Gbps 160.704Mpps				
Packet Buffer	160.704мpps 16Mb				
Network Latency	<4µs				
Switching	 32K MAC addresses, including static, dynamic and filtering MAC address 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN VLAN virtual interface GVRP(pending) 27 link aggregation Spanning tree, 64 instances for STP/RTSP/MSTP/PVST(+) 				
Routing	Static routing Dynamic routing, including RIP, RIPng, OSPF and OSPFv3 Policy routing(pending) Including the control of the				
Multicast	IGMP Snooping with IGMPv2 and IGMPv3 MLD Snooping with MLDv1 and MLDv2 MVR(pending) Parts of with				
QoS/ACL	Port priority Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit K ACL for Ethernet, IPv4 and IPv6				
DHCP	DHCP server, DHCP relay, DHCP Option 82, 60, 160 and 43				
Maintenance	CPU and memory monitoring, fault detection and alarm for power supply and fan, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, diagnostics including Ping, Traceroute, port mirroring, UDLD(pending) 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	Desktop, or Rack-Mount (rack-mounting kits included)	Desktop, or Rail-Mount (rack-mounting kits included)			
	1x tri-color LED for device tr	acking and status indication			
LEDs	54x green-color LEDs	r power supply PSU1/2 for data transferring			
Fan	48x yellow-color LEDs for I				
Environmental	Operation: 0°C to 45°C, humidi	ty 10-90% RH(Non-condensing)			
		10% to 90% RH(Non-condensing)			
Dimensions Unit Weight	440mm(L)x300mm(W)x44mm(H) 4.7Kg	440mm(L)x380mm(W)x44mm(H) 6Kg			
- I signe	1x Sv	vitch			
	1x 1.2m AC Cable				
	1x 25cm Ground Cable 4x Rubber Footpads				
Package Content	1	1x Power Cord Anti-Trip			
23.000	2x Front Rack-	Mounting Kits 2x Rear Rack-Mounting Kits			
	1	2x Rear Slideways			
	8x Screws(KM 3*6)	16x Screws(KM 3*6)			
Hot Curannahla BCII	1x Quick Installation Guide				
Hot-Swappable PSU Compliance	Available for Separate Purchase FCC, CE, RCM, IC, UKCA				
Compnance	FLC, CE, KLM, IC, UKCA				





Layer 3 Multi-Gigabit Network Switches

GWN7821P - GWN7822P

The GWN7820 series are Layer 3 multi-gigabit managed PoE 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, comprehensive security capabilities against potential attacks, and provides smart dynamic PoE output to power IP phones, IP cameras, Wi-Fi access points and other PoE endpoints. GWN7820 series can be managed in a number of ways, including the local Web user interface of the GWN7820 series switch and CLI, the command-line interface, and GWN router. The series is also supported by GDMS Networking and GWN Manager, Grandstream's cloud and on-premise network management platform. With complete end-to-end quality of service and flexible security settings, the GWN7820 series are the best value enterprise-grade managed PoE switches for medium-to-large businesses.



8 & 24 Gigabit Ethernet ports and 2 & 4 Gigabit SFP+ ports



Smart power control to support dynamic PoE/PoE+ and PoE++



Supports deployment in IPv6 and IPv4 networks



Reliability features including fault detection, device protection, dual boot, dual system file redundancy, link aggregation, storm control, and more



ACL filtering of data packets by configuring matching rules, processing operations and time schedule, and provides flexible security access control policies



Management options include: Embedded controller; GDMS Networking and GWN Manager, Grandstream's free cloud and on-premise network management platform; CLI management; GWN router



Built-in QoS allows for prioritization of network traffic



Supports stacking (pending) for easy management on one interface while creating redundant backup between multiple devices

	GWN7821P	GWN7822P			
Network Protocols	IPv4, IPv6, IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3ac, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3af/at/bt, IEEE 802.1p, IEEE 802.1q, IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.1x				
Memory	256MB RAM 8MB Nor Flash, 128MB Nand Flash				
Jumbo Frame (Bytes)	102				
PoE Standards Gigabit Ports	IEEE 802.3af/at/bt 16x 1G, 8x 2.5G				
	8X 2.3U	16x 1G, 8x 2.5G 4			
SFP+ Ports	(To Support DAC, cable must be ≤ 5m)	(To Support DAC, cable must be ≤ 5m)			
Maximum Amount of Supported Modules	SM-10G: 2 MM-10G: 2 RJ45-10G: 2	SM-10G: 4 MM-10G: 4 RJ45-10G: 2 (Note: RJ45-10G modules must be interval inserted)			
Console	1	(Note: 1945 Tod Modales Mast be interval inserted)			
Link Aggregation Groups	5	14			
Integrated Power Supply	280W(54V/5.19A)	420W(54V/7.78A)			
External Redundant Power Supply (RPS)	1	54V(300W)			
Maximum Output Power Per PoE Port	60W	30W for port 1-16, 60W for port 17-24			
Max Total PoE Output Power	240W 360W ± 6KV CM and DM for power				
Surge Protection	± 4KV CM for network ports				
ESD Avvillage Page	± 12KV for contact discharge				
Auxiliary Ports Forwarding Mode	1x Reset Pinhole Store-and-forward				
Total non-blocking throughput	40Gbps	76Gbps			
Switching Capability	80Gbps	152Gbps			
Forwarding Rate	59.52Mpps	113.088Mpps			
Packet Buffer Network Latency	12N <41				
Stacking	<4μs Yes, up to 4 devices				
Switching	• 16K MAC addresses, including static, dynamic and filtering MAC address • 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, MAC-based VLAN, Protocol-based VLAN, voice VLAN • Private VLAN (appelled)				
Routing	Nouting policy Normal policy VRRP(pending)				
Multicast	• MVR				
QoS/ACL	Port priority Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit SK ACT for Ethernet, IPv4 and IPv6				
DHCP	DHCP server, DHCP relay, Option 82, 60, 160 and 43				
Maintenance	CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, diagnostics including Ping, Traceroute, mirroring, UDLD(pendin				
Security	User hierarchical management and password protection, HTTPS, SSH, Telnet Identity authentication including 802.1X and MAC authentication AAA authentication including RADIUS, TACACS+ Storm control Port isolation, port security, sticky MAC				
Mounting	Desktop, or Rack-Mount (rack-mounting kits included)				
System LEDs	1x tri-color LED for device tracking and status indication				
Power Supply LEDs	1	2x green-color LEDs for per power supply PWR&RPS			
PoE Powered LEDs	8x yellow-color LEDs	24x yellow-color LEDs			
Data Transferring LEDs	10x green-color LEDs	28x green-color LEDs			
Fan	2 Operation 0% to 45% humidity	2			
Environmental	Operation: 0°C to 45°C, humidity ′ Storage: -10°C to 60°C, humidity: ′				
Dimensions	330mm(L)x175mm(W)x44mm(H)	440mm(L)x300mm(W)x44mm(H)			
Unit Weight	· ·	4.1Kg			
	1x Switch 1x 1.x AC Cable 1x 2.5cm Ground Cable				
	4x Rubber Footpads 1x Power Cord Anti-Trip				
Package Content	2x Extended Rack-Mounting Kits	2x Rack-Mounting Kits			
	/ 1x RPS, External Redundant Power Supply(Optional)				
	8x Screws(KM 3*6) 1x Quick Installation Guide				
	1x Console Cable (Optional)				
Compliance	FCC, CE, RCM, IC				