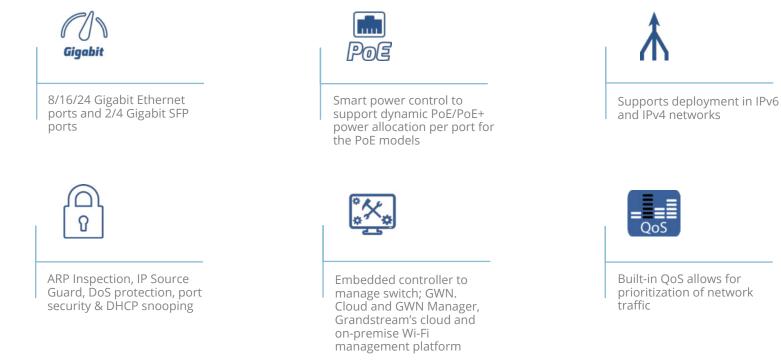


Enterprise Layer 2+ Managed Network Switch GWN7801(P) - GWN7802(P) - GWN7803(P)

The GWN7800 series are Layer 2+ managed network switches that allow small-to-medium 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 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. The GWN7800 series can be managed in a number of ways, including the local web user interface of the GWN7800 series switch. The series is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. The enterprise-grade GWN7800 series are the ideal managed network switches for small-tomedium businesses.





Built-in OoS allows for prioritization of network traffic

10x green LEDs for data portsfor data ports, 8x yellow-color LEDs for POE ports20x green LEDs for for data ports, 16x yellow-color LEDs for POE ports28x green LEDs for data ports, 16x yellow-color LEDs for POE portsfor data ports, 24x yellow-color LED for POE portsEnvironmental//////1/2Dimensions330mm(L)x175mW(X44mm(H)000000000000000000000000000000000		GWN7801	GWN7801P	GWN7802	GWN7802P	GWN7803	GWN7803P	
lip 20 Gigabit Ethernet Ports 3 19 20 Generating Ports 2 4 Generating Ports Ports / 8 / 1 Generating Ports Ports / 8 / 1 / 24 Max Transport Port Ports / 8 / 1 / 24 Max Transport Port Ports / 8 / 1000000000000000000000000000000000000	Network Protocols	IPv4, IPv6, IEEE 802.3, I	EEE 802.3i, IEEE 802.3u, I			1p, IEEE 802.1Q, IEEE 80)2.1w, IEEE 802.1d, IEEE	
Gigblit SPP Ports 2 4 # of PE Ports / 8 / 16 / 24 Max Output Power Supply Max Output Power Supply Max Output Power Port Fort / 30W 1/ 30W 20W 30W 400W Max Output Power Port Fort / 30W 1/ 30W // 30W 400W Max Output Power Port Fort / 30W 1/ 30W // 30W // 30W Max Coll polic Diagnet Power / 120W / 44/XC Microsonk parts // 200W // 30W	PoE Standards	/	IEEE 802.3af/at	/	IEEE 802.3af/at	/	IEEE 802.3af/at	
Consol Image of DPE Ports / 5 / 1 / 24 Integrated Power Supply 30W 150W 30W 270W 30W 400W Max Duput Power PP R Fort / 100W / 30W / 30W 400W Max Duput Power PP R Fort / 100W / 30W / 30W / 30W / 30W 400W Max Max Max Max Max Max Max Max Max / 30W Max / 30W Max / 30W / / 30W <td< th=""><th>Gigabit Ethernet Ports</th><th colspan="2"></th><th colspan="2">I</th><th>2</th><th>24</th></td<>	Gigabit Ethernet Ports			I		2	24	
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Max To LP PC Organization / 1200// / 2400// / 970// Surge Protection // EEE 802.strat // // EEE 802.strat // // // EEE 802.strat // // EEE 802.strat // EEE 802.strat // //	0 11 7		150W	30W	270W	30W	400W	
Accord / IEEE 802.3afrat / IEEE	Max Output Power per PoE Port	/	30W	/	30W	/	30W	
Surge Protection 1 4 KW CK and DM for power 6.50 1 12/W for context discharge Auxiliary Fors 1 Result Printice Forwarding Mode 20Gbps Forwarding Mode 20Gbps Switching Capability 20Gbps Forwarding Mode 32Gbps Forwarding Mode 40Gbps Forwarding Mode 40Gbps Forwarding Mode 40Gbps Forwarding Mode 40Gbps Forwarding Mode 418.8Mgps Forwarding Mode 4.11Mb <	Max Total PoE Output Power	/		/	240W	/		
Surger volketon = 142K VCM for network jords 4. Auxiliary Ports	PoE Standards	/	IEEE 802.3af/at	/		/	IEEE 802.3af/at	
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Network Lateroy Avgr/4jis VLNN virtual interface • Ke traits (dynamic and fibring MAC addresses • Ke traits (dynamic and fibring MAC addresses • CMPE (pending) • CMPE (pending) • Spanning tree, 16 instances for STP/RSTP/MSTP • Spanning tree, 16 instances for STP/RSTP/MSTP • Port priority • Port priority			sivipps			41.66	pivipps	
 Ar VLAN, ip ort-based VLAN, IEE 802.1Q VLAN tagging, volce VLAN VLAN, if use interface VLAN, if use	Network Latency		al filtaria e NAA C e alabasese		4µs			
 Auto detection and prioritization of voice/video/RTP/SIP/other latency-sensitive packets (pending) Priori priority Priority mapping Qos/Act. Proverse Statuling including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping State limit State limit limit State limit State limi	Switching	 • 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN • VLAN virtual interface • GVRP (pending) • 8 link aggregation groups 						
• Port priority • Priority mapping • QosSAct. • Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ • Traffic shaping • Rate limit • 1:SK ACL for Ethernet, IPv4 and IPv6 DHCP server, DHCP relay, Option 82, 60,160 and 43 DHCP CPU and memory monitoring. SNMP, RNON, LDPR4LDP-Rubp, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, por mirroring, UDLD(TBD) and copper test Waintenance CPU and memory monitoring. SNMP, RNON, LDPR4LDP-Rubp, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, por mirroring, UDLD(TBD) and copper test • User hierarchical management and password protection, HTPS, SSH, Telnet • 802.1X authentication including RADUS, TACACS+ • Storm control • Port Isolatication, port security, Sitcky MAC • Port Isolatication port security, Sitcky MAC • Port control in port Security, Sitcky MAC • Protection including BPDU protection, root protection and loopback protection • User protection including BPDU protection, root protection and loopback protection • Der Po ports 1x tri-color LED for device tracking and status indication, 10x green-color LEDs of rod tap ports, 8x yellow-color LEDs data ports 1x tri-color LED for device tracking and status indication, 20x green-color LEDs status indication, 10x green-color LEDs data ports 1x tri-color LED for device tracking and status indication, 20x green-color LEDs status indication, 20x green LEDs for data ports, 8x yellow-color LEDs data ports 1x tri-color LED for device tracking and status indication, 20x green LEDs for data ports 1x tri-color LED for device tracking and status indication, 20x green LEDs for bop forts 1x tri-color LED for device tracking and status indication, 20x green	Multicast			IGMP Snooping, MI	_D Snooping, MVR			
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• User hierarchical management and password protection, HTTPS, SSH, Telnet • 802.1X authentication • AAA authentication • AAA authentication • AAA authentication • Security • Porticipation including RADIUS, TACACS+ • Storm control • Porticipation including BPDU protection, ARP inspection • DHCP Snooping • DHCP Snooping • DHCP Snooping • DHCP Snooping • Security 1 x tri-color LED for device tracking and status indication, 10x green LEDs for data ports 1 x tri-color LED for device tracking and status indication, 10x green.color LEDs for Ata ports, 8 x yellow-color LEDs for PoE ports 1 x tri-color LED for device tracking and status indication, 10x green.color LEDs for data ports 1 x tri-color LED for data ports, 8 x yellow-color LEDs for data ports 1 x tri-color LED for data ports 1 x tri-color LED for data ports 10x green Color LEDs for data ports 1 x tri-color LEDs for data ports 1 x tri-color LED for data ports 1 x tri-color LED for data ports 10x green LEDs for data ports 1 x tri-color LED for data ports 1 x tri-color LED for data ports 1 x tri-color LED for data ports 10x green LEDs for data ports 1 x tri-color LED for data ports 1 x tri-color LED for data ports 1 x tri-color LED for data ports	-	 Queue scheduling, in Traffic shaping Rate limit 	, IPv4 and IPv6	·	Option 82, 60,160 and 4	3		
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Environmental Operation: 0°Cto 45°C, humidity 10-90% RH(Non-condensing) Storage: -10°C to 60°C, humidity: 5% to 95%(Non-condensing) Dimensions 330mm(L)x175m(W)x44mm(H) 440mm(L)x200m(W)x44mm(H) Unit Weight 1.8Kg 2Kg 2.6Kg 3Kg 2.7Kg 3.3Kg Mounting Desktop, Wall-Mount, or Rack-Mount(rack-mounting kits Inswitch 1.8Kg 3.3Kg 3.3Kg Package Content EnvironMathing Kits Inswitch Insw	DHCP Maintenance	Queue scheduling, in Traffic shaping Rate limit 1.5K ACL for Ethernet CPU and memory mor User hierarchical mar 802.1X authentication AAA authentication ir Storm control Port isolation, port se Filtering MAC address IP source guard, DoS DHCP Snooping Loop protection inclu	; IPv4 and IPv6 Ditoring, SNMP, RMON, Li nagement and password cluding RADIUS, TACACS curity, sticky MAC s attack prevention, ARP in ding BPDU protection, ro	HCP server, DHCP relay, LDP&LLDP-MED, backup mirroring, UDLD(TB protection, HTTPS, SSH, 5+	and restore, syslog, ale D) and copper test Telnet		g Ping, Traceroute, por	
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Dimensions330mm(L)x175····(W)x44mm(H)440mm(L)x200···(W)x44mm(H)Unit Weight1.8Kg2Kg2.6Kg3Kg2.7Kg3.3KgMountingObesktop, Vall-Mount, or Rack-Mounting kits or Luded) $-1 \times S$ $-1 \times S$ $-1 \times S$ $-1 \times S$ Package ContentPackage Content $-1 \times S$ $1 \times S$ $-1 \times S$ $1 \times S$ $-1 \times S$ $1 \times S$ $-1 \times S$ $1 \times S$ $-1 \times S$ $-1 \times S$ $1 \times S$ $-1 \times S$	DHCP Maintenance Security LEDs	Queue scheduling, in Traffic shaping Rate limit 1.5K ACL for Ethernet CPU and memory mor User hierarchical mar 802.1X authentication AAA authentication ir Storm control Port isolation, port se Filtering MAC address IP source guard, DoS DHCP Snooping Loop protection inclu Kensington Security S 1x tri-color LED for device tracking and status indication, 10x green LEDs for	i, IPv4 and IPv6 itoring, SNMP, RMON, LI nagement and password ncluding RADIUS, TACACS ecurity, sticky MAC s attack prevention, ARP in ding BPDU protection, rc lot (Kensington Lock) su 1x tri-color LED for device tracking and status indication, 10x green-color LEDs for data ports, 8x yellow-color LEDs for PoE ports	HCP server, DHCP relay, LDP&LLDP-MED, backup mirroring, UDLD(TB protection, HTTPS, SSH, 5+ nspection bot protection and loopt pport 1x tri-color LED for device tracking and status indication, 20x green LEDs for	and restore, syslog, ale D) and copper test Telnet 0ack protection 1x tri-color LED for device tracking and status indication, 20x green-color LEDs for data ports, 16x yellow-color LEDs	rt, diagnostics including 1x tri-color LED for device tracking and status indication, 28x green LEDs for	1x tri-color LED for device tracking and status indication, 28x green-color LEDs for data ports, 24x yellow-color LEDs for PoE ports	
Mounting Desktop, Wall-Mount, or Rack-Mount(rack-mounting kits included) 1x Switch 1x Switch 1x 1.2m(10A) AC Cable 8x screws 8x screws 1x Ground Cable 4x Rubber Feet 1x Quick Installation Guide 1x Power Cord Anti-Trip 2x Extended Rack-Mounting Kits	DHCP Maintenance Security LEDs Fan	 Queue scheduling, in Traffic shaping Rate limit 1.5K ACL for Ethernet CPU and memory mor User hierarchical mar 802.1X authentication ir 802.1X authentication ir Storm control Port isolation, port se Filtering MAC address IP source guard, DoS DHCP Snooping Loop protection inclu Kensington Security S 1x tri-color LED for device tracking and status indication, 10x green LEDs for data ports 	; IPv4 and IPv6 Ditoring, SNMP, RMON, LI hagement and password hcluding RADIUS, TACACS ecurity, sticky MAC s attack prevention, ARP in ding BPDU protection, ro Slot (Kensington Lock) su 1x tri-color LED for device tracking and status indication, 10x green-color LEDs for data ports, 8x yellow-color LEDs for PoE ports / Operati	HCP server, DHCP relay, LDP&LLDP-MED, backup mirroring, UDLD(TB protection, HTTPS, SSH, 5+ nspection bot protection and loopt pport 1x tri-color LED for device tracking and status indication, 20x green LEDs for data ports / ion: 0°Cto 45°C, humidit	and restore, syslog, ale D) and copper test Telnet Dack protection 1x tri-color LED for device tracking and status indication, 20x green-color LEDs for data ports, 16x yellow-color LEDs for PoE ports 1 y 10-90% RH(Non-conde	rt, diagnostics including 1x tri-color LED for device tracking and status indication, 28x green LEDs for data ports / ensing)	1x tri-color LED for device tracking and status indication, 28x green-color LEDs for data ports, 24x yellow-color LEDs for PoE ports	
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Compliance FCC, CE, RCM, IC, UKCA	DHCP Maintenance Security LEDs Fan Environmental Dimensions Unit Weight Mounting	 Queue scheduling, in Traffic shaping Rate limit 1.5K ACL for Ethernet CPU and memory mor User hierarchical mar 802.1X authentication ir 802.1X authentication ir Storm control Port isolation, port se Filtering MAC address IP source guard, DoS DHCP Snooping Loop protection inclu Kensington Security S 1x tri-color LED for device tracking and status indication, 10x green LEDs for data ports / 330mm(L)x175r 1.8Kg 	; IPv4 and IPv6 Ditoring, SNMP, RMON, LI nagement and password ncluding RADIUS, TACACS ecurity, sticky MAC s attack prevention, ARP in ding BPDU protection, re Slot (Kensington Lock) su 1x tri-color LED for device tracking and status indication, 10x green-color LEDs for data ports, 8x yellow-color LEDs for PoE ports / Operati Storage nm(W)x44mm(H) 2Kg	HCP server, DHCP relay, LDP&LLDP-MED, backup mirroring, UDLD(TB protection, HTTPS, SSH, 5+ nspection bot protection and looph pport 1x tri-color LED for device tracking and status indication, 20x green LEDs for data ports / ion: 0°Cto 45°C, humidit 2.6Kg Wall-Mount, or Rack-Mo 1x Sw 1x 1.2m(10/ 8x sci 1x Grour 4x Rubb 1x Quick Insta	and restore, syslog, ale D) and copper test Telnet Telnet 1x tri-color LED for device tracking and status indication, 20x green-color LEDs for data ports, 16x yellow-color LEDs for PoE ports 1 y 10-90% RH(Non-conde y: 5% to 95%(Non-conde 440mm(L)x200m 3kg unt(rack-mounting kits i <i>i</i> tch th AC Cable rews d Cable er Feet llation Guide	1x tri-color LED for device tracking and status indication, 28x green LEDs for data ports / ensing) ensing) ensing) m(W)x44mm(H) 2.7Kg	1x tri-color LED for device tracking and status indication, 28x green-color LEDs for data ports, 24x yellow-color LEDs for PoE ports 2	

Features & Benefits

Powerful Processing Capabilities

- Unicast routing via ACL for data routing between network segments
- DHCP Server and Relay to assign IP addresses to network hosts
- GVRP for dynamic VLAN distribution, registration and attribute propagation reduces manual configuration & ensures configuration
- Built-in QoS supports Port Priority, Priority Mapping, Queue Scheduling, Traffic Shaping and Rate Limit
- Access Control List (ACL) recognizes and filters data packets by configuring matching rules, processing operations and time schedule, and providing flexible security access control policies
- IGMP Snooping and MLD Snooping allows the GWN7800 Series to support multi-terminal video deployments, including surveillance, video conferencing, intercom, and more
- IPv6 and IPv4 support

Multi-layer Security Protection

- Static & dynamic MAC tables / table filtering prevents network attacks
- Packet filtering based on binding IP address, MAC address, VLAN and port
- ARP Inspection protects against ARP spoofing & ARP flooding attacks in LAN environments, including gateway spoofing & man-in-the middle attacks
- IP Source Guard prevents address spoofing including IP/ MAC/VLAN spoofing and IP/VLAN spoofing
- DoS Protection, including Land Attack, Smurf Attack, TCP SYN Attack, Ping Flooding and more
- 802.1X, RADIUS, AAA and TACACS+ to provide comprehensive authentication and authorization for LAN devices
- Supports port security: when the number of MAC addresses learned by a port reaches the maximum, it will be set to error-down state automatically to prevent MAC address attacks and control the network traffic of the port
- DHCP Snooping ensures DHCP packets are only allowed from trusted ports to keep the DHCP environment safe

Network Optimization Tools

- STP/RSTP/MSTP guarantees fast convergence, improves fault tolerance, ensures network stability and provides link load balancing and redundancy
- Loopback detection identifies and removes loops on the network
- VRRP minimizes network downtime caused by gateway failures
- Link aggregation increases bandwidth and improves reliability
- Storm control prevents traffic interruptions caused by broadcast, multicast, or other unicast packets

Smart PoE Capabilities

- Smart power control for dynamic PoE/PoE+ power allocation p/ port
- IEEE 802.3af/at support meets the power requirements for security monitoring, audio/video conferencing, Wi-Fi networks and more
- User-defined time periods control the power supply of the PoE port
- Prioritize PoE ports: when remaining power is insufficient, this setting will power the ports based on priority
- Up to 30W per port configure maximum power allowed per port
- Dynamic power negotiation via LLDP-MED

Easy Management and MaintenanceM

- Management via GWN.Cloud, GWN Manager and Embedded controller
- Management options also include Web GUI, CLI (Console, Telnet) and SNMP (v1/ v2c/v3)
- CPU and memory usage monitoring is supported
- Common networking tools supported such as Ping, Traceroute, UDLD (TBD) and Copper Test to analyze networking issues
- RMON, Syslog, traffic statistics and sFlow (pending) for network optimization.
- LLDP and LLDP-MED for automatic discovery, provisioning, and management of endpoint devices
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IPv4/IPv6 Dual Protocol Stack

- Supports limited IPv4/IPv6 static routing to satisfy different networking needs (pending)
- Supports an IPv4, IPv6 or IPv4/IPv6 hybrid environment.