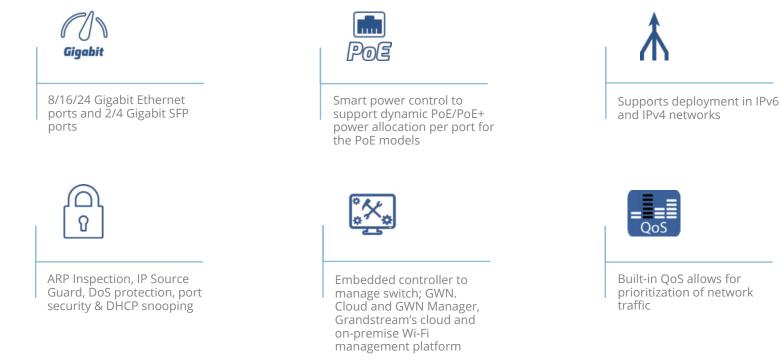


Enterprise Layer 2+ Managed Network Switch GWN7801(P) - GWN7802(P) - GWN7803(P)

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

Max Tar De Dioput Pree / 120W / 240W / 370W Surge Protection // EEE 802.afr/at // // EEE 802.afr/at // // EEE 802.afr/at // // EEE 802.afr/at //		GWN7801	GWN7801P	GWN7802	GWN7802P	GWN7803	GWN7803P
Pet Standards / IfEE 802-3a/ca / IfEE 802-3a/ca / IfEE 802-3a/ca Gigabit SPP Ports 2 4 / IfEE 802-3a/ca / 1 Gigabit SPP Ports 2 4 / 1 / 24 IntegrateDever Suppy 2000/// 1 1 / 24 Max tool for Kerres / 1 1 / 24 Max tool for Kerres / 1 1 / 24 Max tool for Kerres / 2000/// / 2000/// 2000/// 2000/// 2000//// 2000/// 2000/// 2000/// 2000/// 2000/// 2000//// 2000//// 2000//// 2000//// 2000//// 2000//// 2000//// 2000//////// 2000/////// 2000///////// 2000//////////////////////////////////	Network Protocols	IPv4, IPv6, IEEE 802.3, I	EEE 802.3i, IEEE 802.3u, I			1p, IEEE 802.1Q, IEEE 80	02.1w, IEEE 802.1d, IEEE
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Max Total Power per Pet Fort / 30W	# of PoE Ports	/	8	/	16	/	24
Max Tar De Dioput Pree / 120W / 240W / 370W Surge Protection // EEE 802.afr/at // // EEE 802.afr/at // // EEE 802.afr/at // // EEE 802.afr/at //	Integrated Power Supply	30W	150W	30W	270W	30W	400W
NoteStandarde / IEEE 802.3afrat / <	Max Output Power per PoE Port	/	30W	/	30W	/	30W
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Switching Capability 20Chps 40Chps 56Chps Packet Buffer	Forwarding Mode	Store-and-forward					
Forwarding Rate 14.88Mpps 29.76Mpps 41.66Mpps Packet Buffer Avgr-4jps Avgr-4jps Avgr-4jps Network Lateroy Avgr-4jps Avgr-4jps Switching * 6K static, dynamic and Titering MAC addresses - 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN Lagging, voice VLAN Switching * 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN Lagging, voice VLAN - 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN Lagging, voice VLAN VLAN virtual interface - 6K static, dynamic and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) - 4A to detection and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) • Auto detection and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) - 7 Fifter shaping • Auto detection and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) - 7 Fifter shaping • Auto detection and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) - 7 Fifter shaping • Auto detection and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) - 7 Fifter shaping • Auto detection and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) - 7 Fifter shaping • Auto detection and prioritization of voice/video/RTIP/SP/vither latency-sensitive packets (pending) - 7 Fifter shaping • User hierarchical management and password protection of LOU(SP) and coppertest <th>Total non-blocking throughput</th> <th colspan="6">10Gbps 20Gbps 28Gbps</th>	Total non-blocking throughput	10Gbps 20Gbps 28Gbps					
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Network Lateroy Avgr/4jis VLNN, brot-based VLAN, LEE 802.1Q VLAN tagging, voice VLAN	Forwarding Rate	14.88Mpps 29.76Mpps 41.66Mpps					
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 - 4: VLAN, I, EE 802.1Q VLAN IEE 800.1Q VLAN IEE	Network Latency			Avg<	4µs		
Auto detection and prioritization of voiceVideo/RTP/SIP/other latency-sensitive packets (pending) Priority Priority mapping OpS/ACT Prote priority Priority mapping Ouce scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit Traffic shaping Status indication, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, por mirroring, UDLOT(BD) and copper test User hierarchical management and password protection, HTIPS, SSH, Telnet Socrate and the status indication, ARP inspection Port isolation, port security, sticky MAC Filtering MAC address Security It stricolor LED for device tracking and status indication, Div green-color LEDs for device tracking and status indication, Div green-col	-	 • 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN • VLAN virtual interface • GVRP (pending) • 8 link aggregation groups • Spanning tree, 16 instances for STP/RSTP/MSTP 					
 Pott priority Pott priority Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic Shaping	Multicast			1 0.	1 0.		
Maintenance CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, Dackup and restore, syslog, alert, diagnostics including Png, Traceroute, por mirroring, UDLD(IBD) and copper test • User hierarchical management and password protection, HTTPS, SSH, Telnet • 802.1X authentication including RADIUS, TACACS+ • Storm control • Port isolation, port security, sticky MAC • Itering MAC address • Posone guard, DoS attack prevention, ARP inspection • HCP Snooping • UHCP Snooping I x tri-color LED for device tracking and status indication, 10x green.color LED for data ports. 8 yellow-color LED for PoE ports 1 x tri-color LED for device tracking and status indication, 10x green.color LED for PoE ports 1 x tri-color LED for device tracking and status indication, 10x green.color LED for PoE ports 1 x tri-color LED for device tracking and status indication, 10x green.color LED for PoE ports 1 x tri-color LED for device tracking and status indication, 10x green.color LED for PoE ports 1 x tri-color LED for data ports. 15x yellow-color LED for PoE ports 1 x tri-color LED for data ports. 15x color LED for data ports. 1 x tri-color LED for device tracking and status indication, 10x green.color LED for PoE ports 1 x tri-color LED for data ports. 15x color LED for PoE ports 1 x tri-color LED for data ports. 15x color LED for PoE ports 1 x tri-color LED for data ports. 15x color LED for data ports. 15x color LED for data p	QoS/ACL	 Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit 1.5K ACL for Ethernet, IPv4 and IPv6 					
Waintenance Iteration mirroring_UDLD(TBD) and copper test Copper test Control of the copper test • User hierarchical management and password protection, HTTPS, SSH, Telnet • 802.1X authentication • 802.1X	DHCP		Dł	HCP server, DHCP relay,	Option 82, 60,160 and 4	3	
• 802.1X authentication • AA authentication including RADIUS, TACACS+ • Storm control • Port Isolation, port security, sticky MAC • Port Isolation, port security, sticky MAC • Protection and loopback protection • Pile Source guard, DoS attack prevention, ARP inspection • Dictor LED for • Dictor LED for 1x tri-color LED for device tracking and status indication, 10x green-Color LEDs for POE ports for POE ports 20x green LEDs of data ports 8x yellow-color LEDs for POE ports 1x tri-color LED for data ports 330mm(L)x175= Storage: -10°C to 60°C, humidity 10-90% RH(Non-condensing) Storage: -10°C to 50°C, humidity: 5% to 95%(Non-condensing) Storage: -10°C to 60°C, humidity: 10-90% RH(Non-condensing) Storage: -10°C to 60°C, humidity: 5% to 95%(Non-condensing) Storage: -10°C to 60°C, humidity: 5% to 95%(Non-condensing) Storage: -10°C to 60°C, humidity: 5% to 95%(Non-condensing) Storage: -10°C to 60°C, humid	Maintenance	CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, port mirroring. UDLD(TBD) and copper test					
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LEDs device tracking and status indication, 10x green LEDs for data portsstatus indication, 10x green LEDs for data portsdevice tracking and status indication, 20x green LEDs for data portsstatus indication, 20x green LEDs for data portsdevice tracking and status indication, 20x green LEDs for for data ports, 8x yellow-color LEDs for POE portsdevice tracking and status indication, 20x green LEDs for data portsdevice tracking and status indication, 20x green LEDs for for data ports, 20x green LEDs for for Ata portsdevice tracking and status indication, 20x green LEDs for for data ports, 16x yellow-color LEDs for POE portsdevice tracking and status indication, 20x green LEDs for data ports, 16x yellow-color LEDs for POE portsdevice tracking and status indication, 20x green LEDs for data ports, 16x yellow-color LEDs for POE portsdevice tracking and status indication, 20x green LEDs for data ports, 16x yellow-color LEDs for POE portsdevice tracking and status indication, 20x green LEDs for to POW RH(Non-conde-sing) Storage- 2.7Kgdevice tracking and status indication, 20x green L		Rensington security s			1x tri-color LED for		
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)x175mm(W)x44mm(H) 440mm(L)x200mm(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 included) 1x Switch 1x Switch 1x Switch Package Content It Switch 1x Switch 1x Ground Cable 4x Rubber Feet 1x Quick Installation Guide 1x Quick Installation Guide 1x Power Cort Anti-Trip 2x Extended Rack-Mounting Kits 2x Rack Mounting Kits 2x Rack Mounting Kits 2x Rack Mounting Kits	LEDs	device tracking and status indication, 10x green LEDs for	status indication, 10x green-color LEDs for data ports, 8x yellow-color LEDs	device tracking and status indication, 20x green LEDs for	status indication, 20x green-color LEDs for data ports, 16x yellow-color LEDs	device tracking and status indication, 28x green LEDs for	status indication, 28x green-color LEDs for data ports, 24x yellow-color LEDs
Environmental 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 included) Included	Fan	/	/	/	1	/	2
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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	Dimensions						
Package Content 1x Switch 1x 1.2m(10A) AC Cable 8x screws 1x Ground Cable 4x Rubber Feet 1x Quick Installation Guide 1x Power Cord Anti-Trip 2x Extended Rack-Mounting Kits 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 2x Rack Mounting Kits 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 4x Rubber Feet 1x Power Cord Anti-Trip	Unit Weight	1.8Kg	2Kg	2.6Kg	3Kg	2.7Kg	3.3Kg
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	Package Content	1x 1.2m(10A) AC Cable 8x screws 1x Ground Cable 4x Rubber Feet 1x Quick Installation Guide 1x Power Cord Anti-Trip					
Compliance FCC, CE, RCM, IC, UKCA	Compliance	2x Extended Ra	ck-Mounting Kits			unting Kits	

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
- •

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.