

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-to-medium businesses.



www.grandstream.com

Max Total PCE Output: Prov / 1200/// / 2400/// // 8700/// Surge Protection UEE 802.a/rat / UEE 802.a/rat UEE 802.		GWN7801	GWN7801P	GWN7802	GWN7802P	GWN7803	GWN7803P	
P6 Standards / IffE 80.2.Mr/m / IffE 80.2.Mr/m / IffE 80.2.Mr/m Gigabit SFP Ports 2 4 / IffE 80.2.Mr/m / / IffE 80.2.Mr/m Gigabit SFP Ports 2 4 / 16 / 24 Main Coupt Power Supply 200// 150// 7 160// / 24 Main Coupt Power Supply 200// 150// 200// 7 200// 7 200// 7 200// 7 200// 7 200// 7 200// 7 200// 7 200// 7 200/// 7 200/// 7 200/// 7 200/// 7 200/// 7 200/// 7 200/// 7 200/// 7 200//// 7 200/// 7 200/// 7 200/// 7 200/// 7 200/// 7 200/// 7 200//// 7 200//// 7 200//// 200///// 2	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	
Gigabit SPP Ports 2 4 e of Pot Ports / B / 16 / 24 Max Counce 1 0 230W 100W 20W 30W 400W Max Counce 30W 1 30W 1 20W 30W 400W Max Counce 20W 30W 1 30W 1 30W 400W Max Counce 20W / 20W / 30W 400W 40W 40W Max Counce 20W /	PoE Standards	/	IEEE 802.3af/at			/	IEEE 802.3af/at	
Consol I I I We PDF Ports / 8 / 16 7 74 Mittagrated Power Supply 30W 150W 30W 270W 30W 400W Max Cuput Power / 120W / 30W / 30W 400W Max Cuput Power / 120W / 320W / 30W 100W / 30W / 30W 400W MOW / 30W 400W / 30W 100W / 30W / 100W / 10W			1	1				
integrated part over Supply Max Couput Power Per P6 Fort / 30 100 2000 2000 2000 2000 2000 2000 2000 2000 100	V							
Integrated Power Suppi No Coupus Power Pro Po For No. Coupus Power Pro Po For No. Coupus Power Pro Po For No. Coupus Power Pro Power 1 3000 7 3000 7 3000 Max Total PoE Dupus Power For Standards / IEE R02.1ar/at AUX Data Post Surge Protection / IEE R02.1ar/at AUX Data Post For Power For Power	Console			1				
Max Total PO Upup Power Poet Standards / Poet S	# of PoE Ports	/	8	/	16	/	24	
Max Total PCE Output: Prove / 1200// / 2400// / 8700// Surge Protection IEEE 802.strat / IEEE 802.strat / IEEE 802.strat / IEEE 802.strat / IEEE 802.strat // IEEE 802.strat /// IEEE 802.strat // IEEE 802.strat // IEEE 802.strat /// IEEE 80	Integrated Power Supply	30W	150W	30W	270W	30W	400W	
Port Standards / IEEE 802.3afrat /	Max Output Power per PoE Port	/	30W	/	30W	/	30W	
Surge Protection if NVCK And DM for power	Max Total PoE Output Power	/	120W	/	240W	/	370W	
Surger Vrotector = 44/C VCM for network forces 4. Auxiliary Ports	PoE Standards	/	IEEE 802.3af/at	/	IEEE 802.3af/at	/	IEEE 802.3af/at	
Note the second of the	Surge Protection							
Forwarding Mode (Tablinon-Link (throughput) Store-and-forward 2000bps 2000bps	ESD							
Total non-blocking throughput 10Gbps 205bps 285bps Switching Capability 20.05ps 23.76Mpps 41.66Mpps Preventing Rate 14.88Mpps 29.76Mpps 41.66Mpps Network Latency -47.54Mpps 41.66Mpps 565bps Preventing Rate -47.54Mpps 41.66Mpps 565bps Will Cost -47.54Mpps -47.54Mpps 41.66Mpps Switching -47.54Mpps -47.54Mpps 41.64Mpps Switching -47.54Mpps -47.54Mpps -47.54Mpps Will Cost -47.54Mpps	Auxiliary Ports	1x Reset Pinhole						
Switching Capability 20Chps 440Chps 56Chpc Packet Buffer 14.8Mpps 41.6Mpps 41.6Mpps Network Latercy 4.1Mb 41.6Mpps 41.6Mpps Network Latercy Society and the second an								
Porvariating Rate Packet Buffer 14.88Mpps 29.76Mpps 41.66Mpps Network Lateroy Network Lateroy Avgr4µs Avgr4µs Switching V-MA VTAN, sport-based VLAN, IEEE 802.1Q VLAN logging, voice VLAN Avgr4µs Switching V-MA VTAN, sport-based VLAN, IEEE 802.1Q VLAN logging, voice VLAN VVAN virtual interface - KVAN virtual interface IGMP Snooping, MLD Snooping, MVR Muticast - Anto detection and prioritization of voice/videe/RIP/SIP/other latency-sensitive packets (pending) - Auto detection and prioritization of voice/videe/RIP/SIP/other latency-sensitive packets (pending) - Auto detection and prioritization of voice/videe/RIP/SIP/other latency-sensitive packets (pending) - Auto detection and prioritization of voice/videe/RIP/SIP/other latency-sensitive packets (pending) - Auto detection and prioritization of voice/videe/RIP/SIP/other latency-sensitive packets (pending) - Auto detection and prioritization of voice/videe/RIP/SIP/other latency-sensitive packets (pending) - Auto detection and prioritization of voice/videe/RIP/SIP/Other latency-sensitive packets (pending) - Rate limit - List Auto for Ethernet, IPv4 and IPv6 DHCP POR Joadian, port security, SIRV MAC - User hierarchical management and password protection, and loopback protection - User hierarchical management and password protection and loopback protection - User hierarchical management and password protection and loopback protection <		10Gbps 20Gbps 28Gbps						
Packet Buffer 4.1Mb Network Latengy		20Gbps 40Gbps 56Gbps						
Network Lateroy Avgr/4jis VANS, port-based VAN, EEE 802.1Q VLAN tagging, voice VLAN		14.88Mpps 29.76Mpps 41.66Mpps						
 A.W. VLAN, Even interface - VCPR (prending) - VCPR (pre	Network Latency		Avg<4µs					
	-	 • 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 						
Maintenance CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MELLDP-MELDP-MED, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, por mirroring, UDLQTBD) and copper test • User hierarchical maagement and password protection, HTTPS, SSH, Tellett • 802.1X authentication • AAA authentication including RADIUS, TACACS+ • Security • Status indication, Including RADIUS, TACACS+ • Status indication, 200 • Sport isolation, port security, sticky MAC • File sing MAC address • Status file address • DHCP Snooping • Loop protection including RDU protection, root protection and loopback protection 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for data ports 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for data ports 1x tri-color LED for data ports 1x tri-color LED for for POE ports 1x tri-color LED for data ports 1x tri-color LED for data ports 1x tri-color LED for for POE ports 1x tri-color LED for data ports 1x tri-color LED for for POE ports 1x tri-color LED for for POE ports 1x tri-color LED for for POE ports 1x tri-c	QoS/ACL	 Port priority Priority mapping Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ Traffic shaping Rate limit 						
Maintenance CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MELLDP-MELDP-MED, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, por mirroring, UDLQTBD) and copper test • User hierarchical maagement and password protection, HTTPS, SSH, Tellett • 802.1X authentication • AAA authentication including RADIUS, TACACS+ • Security • Status indication, Including RADIUS, TACACS+ • Status indication, 200 • Sport isolation, port security, sticky MAC • File sing MAC address • Status file address • DHCP Snooping • Loop protection including RDU protection, root protection and loopback protection 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for data ports 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for device tracking and status indication, 10 green LEDs for data ports 1x tri-color LED for data ports 1x tri-color LED for data ports 1x tri-color LED for for POE ports 1x tri-color LED for data ports 1x tri-color LED for data ports 1x tri-color LED for for POE ports 1x tri-color LED for data ports 1x tri-color LED for for POE ports 1x tri-color LED for for POE ports 1x tri-color LED for for POE ports 1x tri-c	DHCP							
• User hierarchical management and password protection, HTTPS, SSH, Telnet • 802.1X authentication • AAA authentication • AAA authentication • AAA authentication • Security • Portocorrol • Storm control • Biltering MAC address • Portoce guard, DoS attack prevention, ARP inspection • DHCP Snooping • OHCP Snooping • OHCP Snooping • Consingtion Security Slot (Kensington Lock) support 1x tri-color LED for device tracking and status indication, 10x green color LEDs for data ports, atsus indication, 10x green color LEDs for data ports, 8x yellow-color LEDs for PoE ports 1x tri-color LED for or data ports, 8x yellow-color LEDs for PoE ports 1x tri-color LED for or tactus indication, 10x green-color LEDs for data ports, 8x yellow-color LEDs for PoE ports 1x tri-color LED for or tactus indication, 10x green-color LEDs for data ports, 8x yellow-color LEDs for PoE ports 1x tri-color LED for data ports, 9x yellow-color LEDs for data ports, 9x yellow-color LEDs for PoE ports 1x tri-color LED for data ports, 9x yellow-color LEDs for PoE ports 1x tri-color LED for data ports, 9x yellow-color LEDs for OPE ports 1x tri-color LED for data ports, 9x yellow-color LEDs for PoE ports 1x tri-color LED for data ports, 9x yellow-color LEDs for PoE ports 1x tri-color LED for PoE ports 1x tri-color LED for PoE ports 1x tri-color LED for PoE ports 1x data ports <th>Maintenance</th> <th colspan="6">CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, port</th>	Maintenance	CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, alert, diagnostics including Ping, Traceroute, port						
LEDs 1x tri-color LED for device tracking and status indication, 10x green LEDs for data ports 1x tri-color LED for device tracking and status indication, 10x green LEDs for data ports 1x tri-color LED for device tracking and status indication, 10x green LEDs for 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 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 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 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 - Color LEDs for PoE ports 1x tri-color LED for device tracking and status indication, 20x green - Color LEDs for PoE ports 1x tri-color LED for device tracking and status indication, 20x green - Color LEDs for PoE ports 1x tri-color LED for device tracking and status indication, 20x green - Color LEDs for PoE ports 1x tri-color LED for device tracking and status indication, 20x green - Color LEDs for PoE ports 1x tri-color LED for device tracking and status indication, 20x green - Color LEDs for PoE ports 1x tri-color LED for device tracking and status indication, 20x green - Color LEDs for PoE ports 1x tri-color LED for device tracking and status indication, 20x green - Color LEDs for PoE ports 1x tri-color LED for PoE ports 1x	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 and loopback protection						
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 Int Switch 1.8Kg 3.3Kg Package Content Image: Content of the state	LEDs	1x tri-color LED for device tracking and status indication, 10x green LEDs for	1x tri-color LED for device tracking and status indication, 10x green-color LEDs for data ports, 8x yellow-color LEDs	1x tri-color LED for device tracking and status indication, 20x green LEDs for	device tracking and status indication, 20x green-color LEDs for data ports, 16x yellow-color LEDs	device tracking and status indication, 28x green LEDs for	device tracking and status indication, 28x green-color LEDs for data ports, 24x yellow-color LED	
Invironmental 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-Mounting kits included) In Switch In Switch Storage: -10°C to 60°C, humidity: 5% to 95% (Non-condensing) Package Content Image: Content of the system of the syst	Fan	/	/	/	1	/	2	
Dimensions330mm(L)x175····(W)x44mm(H)440mm(L)x200···(W)x44mm(H)Unit Weight1.8Kg2Kg2.6Kg3Kg2.7Kg3.3KgMountingObesktop, Vall-Mount, or Rack-Mounting kits included) $1 \times 1.2m(10)$ <th>Environmental</th> <th colspan="6"></th>	Environmental							
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 2x Rack Mounting Kits 4x Rubber Feet 1x Power Cord Anti-Trip 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 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 Feet 1x Powe	Unit Weight	1.8Kg	2Kg	2.6Kg	3Kg	2.7Kg	3.3Kg	
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 2x Extended Rack-Mounting Kits 2x Rack Mounting Kits	Mounting		Desktop,	Wall-Mount, or Rack-Mo	unt(rack-mounting kits i	included)		
	Package Content	1x 1.2m(10A) AC Cable 8x screws 1x Ground Cable 4x Rubber Feet 1x Quick Installation Guide						
	Compliance		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.