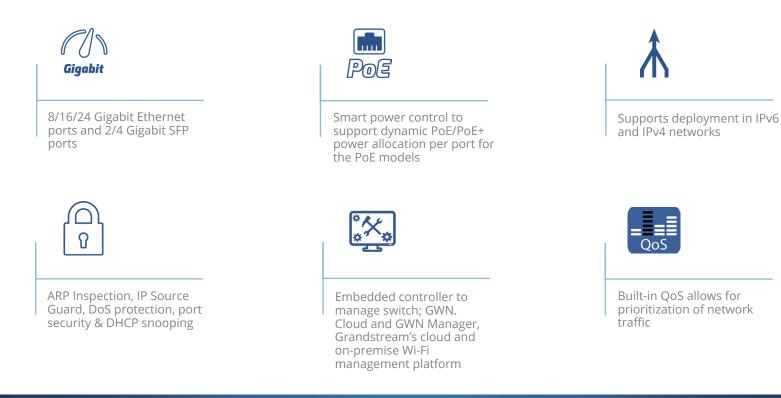


# Enterprise Layer 2+ Managed Network Switch GWN7801(P) - GWN7802(P) - GWN7803(P)

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						
<ul> <li>A.W. VLAN, Even interface - VCPR (prending) - VCPR (pre</li></ul>	Network Latency		Avg<4µs					
	-	<ul> <li>• 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN</li> <li>• VLAN virtual interface</li> <li>• GVRP (pending)</li> <li>• 8 link aggregation groups</li> <li>• Spanning tree, 16 instances for STP/RSTP/MSTP</li> </ul>						
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	<ul> <li>Port priority</li> <li>Priority mapping</li> <li>Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ</li> <li>Traffic shaping</li> <li>Rate limit</li> </ul>						
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&amp;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.