



Enterprise Layer 2+ Managed Network Switch **GWN7801**

The GWN7801 are Layer 2+ managed network switches that enable small and medium-sized businesses to build business networks that are scalable, secure, high-performance and intelligent, and fully manageable. It supports advanced VLANs for flexible and sophisticated traffic segmentation, advanced QoS to prioritize network traffic, IGMP Snooping to optimize network performance, and comprehensive security capabilities against potential attack. The GWN7801 can be managed in a number of ways, including the GWN7801 Switch's web user interface. The product line is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud-based and on-premises Wi-Fi management platforms. The enterprise-grade GWN7801 series are ideal managed network switches for small and medium-sized businesses.



8 Gigabit Ethernet Ports
2 Gigabit SFP Ports



Supports deployment in IPv6 and IPv4 networks



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 Wi-Fi management platform



Built-in QoS allows for prioritization of network traffic

GWN7801	
Giao thức mạng	IPv4, IPv6, IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.3af/at, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1w, IEEE 802.1d, IEEE 802.1s
Số cổng Gigabit	8
Số cổng SFP	2
Console	1
Integrated Power Supply	30W
Auxiliary Ports	1x Reset Pinhole
Forwarding Mode	Store-and-forward
Total non-blocking throughput	10Gbps
Switching Capability	20Gbps
Forwarding Rate	14.88Mpps
Packet Buffer	4.1Mb
Network Latency	Avg<4µs
Switching	<ul style="list-style-type: none"> • 8K static, dynamic and filtering MAC addresses • 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
Multicast	IGMP Snooping, MLD Snooping, MVR
QoS/ACL	<ul style="list-style-type: none"> • Auto detection and prioritization of voice/video/RTP/SIP/other latency-sensitive packets (pending) • Port priority • 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
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, alert, diagnostics including Ping, Traceroute, port mirroring, UDLD(TBD) and copper test
Security	<ul style="list-style-type: none"> • 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 • Kensington Security Slot (Kensington Lock) support
Management	Quản lý Cloud, GWN manager, Https, CLI, TR069
Use	PC, Camera, Wifi, IP phone...
LEDs	1x tri-color LED for device tracking and status indication, 10x green LEDs for data ports
Fan	None
Environmental	Operation: 0°C to 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)
Unit Weight	1.8Kg
Mounting	Desktop, Wall-Mount, or Rack-Mount(rack-mounting kits included)
Package Content	<ul style="list-style-type: none"> 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
Compliance	FCC, CE, RCM, IC, UKCA

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

Easy Management and Maintenance

- 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.