



## Enterprise Layer 2+ Managed Network Switch GWN7806(P)

The GWN7806(P) is layer 2+ stackable(pending) managed network switch that allows 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/MLD Snooping for network performance optimization, and comprehensive security capabilities against potential attacks. The GWN7806P provides smart dynamic PoE output to power IP phones, IP cameras, Wi-Fi access points and other PoE endpoints. GWN7806(P) is easy to deploy and manage, including managed by the local Web user interface of the GWN7806(P) switch and CLI, the command-line interface. The switch is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform. The GWN7806(P) is the best value enterprise-grade managed switch for small-to-medium businesses.



48 Gigabit Ethernet ports and 6 Gigabit SFP+ ports



Smart power control to support dynamic PoE/PoE+ power allocation per port for the PoE models



Supports deployment in IPv6 and IPv4 networks



Reliability features including fault detection, device protection, dual boot, dual system file redundancy, link aggregation, storm control, and more



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



Supports stacking for easy management of up to 16 switches in one interface while creating redundant backup between multiple devices

|  | GWN7806   | GWN7806P        |
|--|---|-----------------|
| <b>Network Protocol</b>                  | IPv4, IPv6, IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3az, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3af/at, IEEE 802.1p, IEEE 802.1Q, IEEE 802.3AB, IEEE 802.1p, IEEE 802.1D, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x  |                 |
| <b>Gigabit Ports</b>                     | 48  |                 |
| <b>SFP+ Ports</b>                        | 6   |                 |
| <b>Console</b>                           | 1   |                 |
| <b># of PoE Ports</b>                    | /   | 48              |
| <b>Integrated Power Supply</b>           | 60W   | 470W            |
| <b>Maximum Output Power Per PoE Port</b> | /   | 30W             |
| <b>Max Total PoE Output Power</b>        | /   | 400W            |
| <b>PoE Standards</b>                     | /   | IEEE 802.3af/at |
| <b>Auxiliary Ports</b>                   | 1x Reset Pinhole  |                 |
| <b>Forwarding Mode</b>                   | Store-and-forward   |                 |
| <b>Total non-blocking throughput</b>     | 108Gbps   |                 |
| <b>Switching Capability</b>              | 216Gbps   |                 |
| <b>Forwarding Rate</b>                   | 160.704Mpps   |                 |
| <b>Packet Buffer</b>                     | 16Mb  |                 |
| <b>Switching</b>                         | <ul style="list-style-type: none"> <li>• 32K static, dynamic and filtering MAC addresses</li> <li>• 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN</li> <li>• VLAN virtual interface</li> <li>• GVRP (pending)</li> <li>• 27 link aggregation</li> <li>• Spanning tree, 64 instances for STP/RSTP/MSTP</li> </ul>  |                 |
| <b>Routing</b>                           | Static routing  |                 |
| <b>Multicast</b>                         | <ul style="list-style-type: none"> <li>• IGMP Snooping</li> <li>• MLD Snooping</li> <li>• MVR (pending)</li> </ul>  |                 |
| <b>QoS/ACL</b>                           | <ul style="list-style-type: none"> <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> <li>• 4K ACL for Ethernet, IPv4 and IPv6</li> </ul>   |                 |
| <b>DHCP</b>                              | DHCP server, DHCP relay, DHCP Option 82, 60, 160 and 43   |                 |
| <b>Maintenance</b>                       | CPU and memory monitoring, SNMP, RMON, LLDP&LLDP-MED, backup and restore, syslog, diagnostics including Ping, Traceroute, port mirroring, UDLD(TBD) and copper test   |                 |
| <b>Security</b>                          | <ul style="list-style-type: none"> <li>• User hierarchical management and password protection, HTTPS, SSH, Telnet</li> <li>• 802.1X authentication</li> <li>• AAA authentication including RADIUS, TACACS+</li> <li>• Storm control</li> <li>• Port isolation, port security, sticky MAC</li> <li>• Filtering MAC address</li> <li>• IP source guard, DoS attack prevention, ARP inspection</li> <li>• DHCP Snooping</li> <li>• Loop protection including BPDU protection, root protection(pending) and loopback protection(pending)</li> <li>• Kensington Security Slot (Kensington Lock) support</li> </ul> |                 |
| <b>Mounting</b>                          | Desktop, Rack-Mount(rack-mounting kits included)  |                 |
| <b>LEDs</b>                              | 1x tri-color LED for device tracking and status indication<br>54x green-color LEDs for data transferring<br>48x yellow-color LEDs for PoE powered (GWN7806P)  |                 |
| <b>Fan</b>                               | 3   |                 |
| <b>Environmental</b>                     | Operation: 0°C to 45°C, humidity: 10% to 90% RH(Non-condensing)<br>Storage: -10°C to 60°C, humidity: 10% to 90% RH(Non-condensing)  |                 |
| <b>Dimensions</b>                        | 440mm(L)x301mm(W)x44mm(H)   |                 |
| <b>Unit Weight</b>                       | 4.0Kg   | 5.1Kg           |
| <b>Package Content</b>                   | Switch, 1x 1.2m(10A) AC Cable, 1x 25cm Ground Cable, 4x Rubber Footpads, 2x Rack-Mounting Kits, 8x Screws(PM 3*6), 1x Power Cord Anti-Trip, 1x Quick Installation Guide, 1x Console Cable(Optional)   |                 |
| <b>Compliance</b>                        | FCC, CE, RCM, IC, UKCA  |                 |