

Grandstream GWN7812P 16-Port Layer 3 PoE Network Switch (GWN7812P)



Product Name: Grandstream GWN7812P 16-Port Layer 3 PoE Network Switch (GWN7812P)

Manufacturer: Grandstream

Model Number: GWN7812P

Grandstream GWN7812P 16-Port Layer 3 PoE Network Switch

The GWN7810 series are Layer 3 managed network switches that allow medium-to-large enterprises to build scalable, secure, high performance and smart business networks that are fully manageable.

Grandstream GWN7812P Key Features:

- 16 Gigabit Ethernet ports and 4 10Gigabit 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
- 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 network management platform
- Built-in QoS allows for prioritization of network traffic

The series is also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform.

Grandstream GWN7812P Technical Specifications

Network Protocol

- IPv4
- IPv6
- IEEE 802.3
- IEEE 802.3i
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3z
- IEEE 802.3ae
- IEEE 802.3x
- IEEE 802.3af/at/bt
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.1w
- IEEE 802.1d
- IEEE 802.1s
- IEEE 802.3az
- IEEE 802.3ad
- IEEE 802.3AB
- IEEE 802.1p
- IEEE 802.1D
- IEEE 802.1x

Gigabit Ethernet Ports

- 16

10Gigabit SFP+ Ports

Grandstream GWN7812P 16-Port Layer 3 PoE Network Switch (GWN7812P)

1/2 4

Note: Supports DAC cable, and must be ≤ 5m
Maximum no. of Supported Modules

1/2 SM-10G: 4

1/2 MM-10G: 4

1/2 RJ45-10G: 2

Note: RJ45-10G modules must be interval inserted
Console

1/2 1

of PoE Ports

1/2 16

Link Aggregation

1/2 10

Max Output Power per PoE Port

1/2 30W

Max Total PoE Output Power

1/2 240W

PoE Standards

1/2 IEEE 802.3af/at

Auxiliary Ports

1/2 1x Reset Pinhole

Forwarding Mode

1/2 Store-and-forward

Total non-blocking throughput

1/2 56Gbps

Switching Capability

1/2 112Gbps

Forwarding Rate

1/2 83.328Mpps

Grandstream GWN7812P 16-Port Layer 3 PoE Network Switch (GWN7812P)

Packet Buffer

- 12MB

Switching

- 16K static, dynamic and filtering MAC addresses
- 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN
- VLAN virtual interface
- GVRP (pending)
- Spanning tree, 32 instances for STP/RSTP/MSTP

Routing

- Static routing
- Dynamic routing, including RIP, RIPng, OSPF and OSPFv3
- Policy routing (pending)

Multicast

- IGMP Snooping
- MLD Snooping
- MVR (pending)

QoS/ACL

- Port priority
- Priority mapping
- Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ
- Traffic shaping
- Rate limit
- 2K ACL for Ethernet, IPv4 and IPv6

DHCP

- DHCP server, DHCP relay, DHCP Option 82, 60, 160 and 43

Maintenance

- CPU and memory monitoring
- SNMP
- RMON
- LLDP&LLDP-MED
- Backup and restore
- Syslog
- Diagnostics including Ping, Traceroute, port mirroring, UDLD (TBD) and copper test

Security

- User hierarchical management and password protection, HTTPS, SSH, Telnet
- 802.1X authentication
- AAA authentication including RADIUS, TACACS+

Grandstream GWN7812P 16-Port Layer 3 PoE Network Switch (GWN7812P)

- 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 (pending) and loopback protection (pending)
- Kensington Security Slot (Kensington Lock) support

Mounting

- Desktop, Wall-Mount, or Rack-Mount (rack-mounting kits included)

System LEDs

- 1x tri-color LED for device tracking and status indication

Data Transferring LEDs

- 20x green-color LEDs

PoE Powered LEDs

- 16x yellow-color LEDs

Fan

- 2

Environmental

- Operation: 0°C to 45°C, humidity 10-90% RH (Non-condensing)

- Storage: -10°C to 60°C, humidity: 5% to 95% RH (Non-condensing)

Dimensions

- 330mm (L) x 176mm (W) x 44mm (H)

- 440mm (L) x 200mm (W) x 44mm (H)

- 440mm (L) x 300mm (W) x 44mm (H)

Unit Weight

- 3.03Kg

Package Content

- 1x Switch

- 1x 1.2m (10A) AC Cable

- 1x 25cm Ground Cable

- 4x Rubber Footpads

- 1x Power Cord Anti-Trip

- 8x Screws (KM 3*6)

- 1x Quick Installation Guide

Grandstream GWN7812P 16-Port Layer 3 PoE Network Switch (GWN7812P)

1/2 1x Console Cable (Optional)
1/2 2x Rack-Mounting Kits

Compliance

1/2 FCC
1/2 CE
1/2 RCM
1/2 IC
1/2 UKCA

Price: Â£212.40
