

## Grandstream GWN7812P Managed Network Switch



Product Name: Grandstream GWN7812P Managed Network Switch

Manufacturer: Grandstream

Model Number: GWN7812P

Grandstream GWN7812P Managed 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

- 4

## Grandstream GWN7812P Managed Network Switch

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

ï¿½ SM-10G: 4

ï¿½ MM-10G: 4

ï¿½ RJ45-10G: 2

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

ï¿½ 1

# of PoE Ports

ï¿½ 16

Link Aggregation

ï¿½ 10

Max Output Power per PoE Port

ï¿½ 30W

Max Total PoE Output Power

ï¿½ 240W

PoE Standards

ï¿½ IEEE 802.3af/at

Auxiliary Ports

ï¿½ 1x Reset Pinhole

Forwarding Mode

ï¿½ Store-and-forward

Total non-blocking throughput

ï¿½ 56Gbps

Switching Capability

ï¿½ 112Gbps

Forwarding Rate

ï¿½ 83.328Mpps

Packet Buffer

ï¿½ 12MB

## Grandstream GWN7812P Managed Network Switch

### 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+
- 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

## Grandstream GWN7812P Managed Network Switch

(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

• 1x Console Cable (Optional)

• 2x Rack-Mounting Kits

### Compliance

• FCC

• CE

• RCM

## Grandstream GWN7812P Managed Network Switch

i¿½ IC  
i¿½ UKCA

**Price: £197.60**

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