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:

ï¿½ 16 Gigabit Ethernet ports and 4 10Gigabit SFP+ ports
ï¿½ Smart power control to support dynamic PoE/PoE+ power allocation per port for the PoE models
ï¿½ Supports deployment in IPv6 and IPv4 networks
ï¿½ ARP Inspection, IP Source Guard, DoS protection, port security & DHCP snooping
ï¿½ Embedded controller to manage switch; GWN.Cloud and GWN Manager, Grandstream’s cloud and on-premise network management platform
ï¿½ 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

ï¿½ IPv4
ï¿½ IPv6
ï¿½ IEEE 802.3
ï¿½ IEEE 802.3i
ï¿½ IEEE 802.3u
ï¿½ IEEE 802.3ab
ï¿½ IEEE 802.3z
ï¿½ IEEE 802.3ae
ï¿½ IEEE 802.3x
ï¿½ IEEE 802.3af/at/bt
ï¿½ IEEE 802.1p
ï¿½ IEEE 802.1Q
ï¿½ IEEE 802.1w
ï¿½ IEEE 802.1d
ï¿½ IEEE 802.1s
ï¿½ IEEE 802.3az
ï¿½ IEEE 802.3ad
ï¿½ IEEE 802.3AB
ï¿½ IEEE 802.1p
ï¿½ IEEE 802.1D
ï¿½ IEEE 802.1x

Gigabit Ethernet Ports

ï¿½ 16

10Gigabit SFP+ Ports

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ï¿½ 4

Note: Supports DAC cable, and must be ≤ 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

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Packet Buffer

ï¿½ 12MB

Switching

ï¿½ 16K static, dynamic and filtering MAC addresses
ï¿½ 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN
ï¿½ VLAN virtual interface
ï¿½ GVRP (pending)
ï¿½ Spanning tree, 32 instances for STP/RSTP/MSTP

Routing

ï¿½ Static routing
ï¿½ Dynamic routing, including RIP, RIPng, OSPF and OSPFv3
ï¿½ Policy routing (pending)

Multicast

ï¿½ IGMP Snooping
ï¿½ MLD Snooping
ï¿½ MVR (pending)

QoS/ACL

ï¿½ Port priority
ï¿½ Priority mapping
ï¿½ Queue scheduling, including SP, WRR, WFQ, SP-WRR and SP-WFQ
ï¿½ Traffic shaping
ï¿½ Rate limit
ï¿½ 2K ACL for Ethernet, IPv4 and IPv6

DHCP

ï¿½ DHCP server, DHCP relay, DHCP Option 82, 60, 160 and 43

Maintenance

ï¿½ CPU and memory monitoring
ï¿½ SNMP
ï¿½ RMON
ï¿½ LLDP&LLDP-MED
ï¿½ Backup and restore
ï¿½ Syslog
ï¿½ Diagnostics including Ping, Traceroute, port mirroring, UDLD (TBD) and copper test

Security

ï¿½ User hierarchical management and password protection, HTTPS, SSH, Telnet
ï¿½ 802.1X authentication
ï¿½ AAA authentication including RADIUS, TACACS+

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ï¿½ Storm control
ï¿½ Port isolation, port security, sticky MAC
ï¿½ Filtering MAC address
ï¿½ IP source guard, DoS attack prevention, ARP inspection
ï¿½ DHCP Snooping
ï¿½ Loop protection including BPDU protection, root protection (pending) and loopback protection (pending)
ï¿½ Kensington Security Slot (Kensington Lock) support

Mounting

ï¿½ Desktop, Wall-Mount, or Rack-Mount (rack-mounting kits included)

System LEDs

ï¿½ 1x tri-color LED for device tracking and status indication

Data Transferring LEDs

ï¿½ 20x green-color LEDs

PoE Powered LEDs

ï¿½ 16x yellow-color LEDs

Fan

ï¿½ 2

Environmental

ï¿½ Operation: 0°C to 45°C, humidity 10-90% RH (Non-condensing)
ï¿½ Storage: -10°C to 60°C, humidity: 5% to 95% RH (Non-condensing)

Dimensions

ï¿½ 330mm (L) x 176mm (W) x 44mm (H)
ï¿½ 440mm (L) x 200mm (W) x 44mm (H)
ï¿½ 440mm (L) x 300mm (W) x 44mm (H)

Unit Weight

ï¿½ 3.03Kg

Package Content

ï¿½ 1x Switch
ï¿½ 1x 1.2m (10A) AC Cable
ï¿½ 1x 25cm Ground Cable
ï¿½ 4x Rubber Footpads
ï¿½ 1x Power Cord Anti-Trip
ï¿½ 8x Screws (KM 3*6)
ï¿½ 1x Quick Installation Guide

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ï¿½ 1x Console Cable (Optional)
ï¿½ 2x Rack-Mounting Kits

Compliance

ï¿½ FCC
ï¿½ CE
ï¿½ RCM
ï¿½ IC
ï¿½ UKCA

Price: £216.75