

Grandstream GWN7830 12 PORT L3 SWITCH



Product Name: Grandstream GWN7830 12 PORT L3 SWITCH

Manufacturer: Grandstream

Model Number: GWN7830

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The Grandstream GWN7830 Series comprises Layer 3 aggregation managed switches designed to empower enterprises in establishing scalable, secure, high-performance, and intelligent business networks that are easily controllable and capable of handling peak loads. It offers advanced VLAN functionality for versatile traffic segmentation, enhanced QoS to prioritise network traffic, IGMP/MLD Snooping for optimising network performance, and robust security features to guard against potential threats.

Grandstream GWN7830 Key Features:

- 2 Gigabit Ethernet ports
- 6 Gigabit SFP ports
- 4 10Gigabit 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 network management platform
- Built-in QoS allows for prioritisation of network traffic

Management of the GWN7830 series is possible through various methods, including the local Web user interface and the CLI (command line interface). Furthermore, this series is compatible with GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform. With comprehensive quality of service, adaptable security configurations, and support for maximum network capacity, the GWN7830 Series presents itself as an excellent choice for medium-to-large deployments in need of enterprise-grade Layer 3 aggregation switches.

Grandstream GWN7830 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 802.3az
- IEEE 802.3ad
- IEEE 802.3x
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.3AB
- IEEE 802.1p
- IEEE 802.1D
- IEEE 802.1s
- IEEE 802.1w
- IEEE 802.1x

Gigabit Ethernet Ports

- 2

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Gigabit SFP Ports

1/2 6

Gigabit SFP+ Ports

1/2 4

Note: Support DAC Cable and must be ≤ 5m
Maximum no. of Supported Modules

1/2 SM-1G: 6

1/2 MM-1G: 6

1/2 RJ45-1G: 3

1/2 SM-10G: 4

1/2 MM-10G: 4

1/2 RJ45-10G: 2

Note: RJ45-1G, RJ45-10G modules must be interval inserted
Console

1/2 1

Integrated Power Supply

1/2 30W

Auxiliary Ports

1/2 1x Reset Pinhole

Forwarding Mode

1/2 Store-and-forward

Total non-blocking throughput

1/2 48Gbps

Switching Capability

1/2 96Gbps

Forwarding Rate

1/2 71.424Mpps

Packet Buffer

1/2 12Mb

Network Latency

1/2 <4μs

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Switching

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

Routing

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

Multicast

- IGMP Snooping with IGMPv2 and IGMPv3
- MLD Snooping with MLDv1 and MLDv2
- MVR (pending)

QoS/ACL

- Port priority
- Priority mapping
- Queue scheduling, including:

- SP
- WRR
- WFQ
- SP-WRR
- SP-WFQ

- Traffic shaping
- Rate limit
- 2K ACL for Ethernet, IPv4, and IPv6

DHCP

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

Maintenance

- CPU and memory monitoring
- Fault detection and alarm for power supply and fan
- SNMP
- RMON

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- LLDP&LLDP-MED
- Backup and restore
- Syslog
- Diagnostics including:

- Ping
- Traceroute
- Port mirroring
- UDLD (TBD)
- Copper test

Security

- User hierarchical management and password protection
- HTTPS, SSH, Telnet
- 802.1X authentication
- AAA authentication including RADIUS and 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)
- Loopback protection (pending)

- Kensington Security Slot (Kensington Lock) support

Mounting

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

System LEDs

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

Data Transferring LEDs

- 12x green-color LEDs

Environmental

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

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Dimensions

1½ 330mm (L) x 175mm (W) x 44mm (H)

Unit Weight

1½ 1.91Kg

Package Content

1½ 1x Switch
1½ 1x 1.2m (10A) AC Cable
1½ 1x 25cm Ground Cable
1½ 4x Rubber Footpads
1½ 1x Power Cord Anti-Trip
1½ 2x Extended Rack-Mounting Kits
1½ 8x Screws (KM 3*6)
1½ 1x Quick Installation Guide
1½ 1x Console Cable (Optional)

Compliance

1½ FCC
1½ CE
1½ RCM
1½ IC
1½ UKCA

Price: £138.75