Grandstream GWN7831 28PORT L3 SWITCH

Product Name: Grandstream GWN7831 28PORT L3 SWITCH

Manufacturer: Grandstream

Model Number: GWN7831

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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 GWN7831 Key Features:

ï¿½ 4x combo Gigabit Ethernet ports
ï¿½ 24 Gigabit SFP ports
ï¿½ 4 Gigabit SFP+ ports
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 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 GWN7831 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 802.3az
ï¿½ IEEE 802.3ad
ï¿½ IEEE 802.3x
ï¿½ IEEE 802.1p
ï¿½ IEEE 802.1Q
ï¿½ IEEE 802.3AB
ï¿½ IEEE 802.1p
ï¿½ IEEE 802.1D
ï¿½ IEEE 802.1s
ï¿½ IEEE 802.1w
ï¿½ IEEE 802.1x

Gigabit Ethernet Ports

ï¿½ 4x combo

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Gigabit SFP Ports

ï¿½ 24

Gigabit SFP+ Ports

ï¿½ 4

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

ï¿½ SM-1G: 24
ï¿½ MM-1G: 24
ï¿½ RJ45-1G: 12
ï¿½ SM-10G: 4
ï¿½ MM-10G: 4
ï¿½ RJ45-10G: 2

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

ï¿½ 1

Integrated Power Supply

ï¿½ 60W

External Redundant Power Supply (RPS)

ï¿½ 12V/60W

Auxiliary Ports

ï¿½ 1x Reset Pinhole

Forwarding Mode

ï¿½ Store-and-forward

Total non-blocking throughput

ï¿½ 64Gbps

Switching Capability

ï¿½ 128Gbps

Forwarding Rate

ï¿½ 95.232Mpps

Packet Buffer

ï¿½ 12Mb

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Network Latency

ï¿½ <4µs

Switching

ï¿½ 16K MAC addresses, including static, dynamic and filtering MAC address
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 14 link aggregation
ï¿½ Spanning tree, 32 instances for STP/RSTP/MSTP

Routing

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

Multicast

ï¿½ IGMP Snooping with IGMPv2 and IGMPv3
ï¿½ MLD Snooping with MLDv1 and MLDv2
ï¿½ MVR (pending)

QoS/ACL

ï¿½ Port priority
ï¿½ Priority mapping
ï¿½ Queue scheduling, including:

ï¿½ SP
ï¿½ WRR
ï¿½ WFQ
ï¿½ SP-WRR
ï¿½ SP-WFQ

ï¿½ Traffic shaping
ï¿½ Rate limit
ï¿½ 2K ACL for Ethernet, IPv4, and IPv6

DHCP

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

Maintenance

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ï¿½ CPU and memory monitoring
ï¿½ Fault detection and alarm for power supply and fan
ï¿½ SNMP
ï¿½ RMON
ï¿½ LLDP&LLDP-MED
ï¿½ Backup and restore
ï¿½ Syslog
ï¿½ Diagnostics including:

ï¿½ Ping
ï¿½ Traceroute
ï¿½ Port mirroring
ï¿½ UDLD (TBD)
ï¿½ Copper test

Security

ï¿½ User hierarchical management and password protection
ï¿½ HTTPS, SSH, Telnet
ï¿½ 802.1X authentication
ï¿½ AAA authentication including RADIUS and TACACS+
ï¿½ Storm control
ï¿½ Port isolation
ï¿½ Port security
ï¿½ Sticky MAC
ï¿½ Filtering MAC address
ï¿½ IP source guard
ï¿½ DoS attack prevention
ï¿½ ARP inspection
ï¿½ DHCP Snooping
ï¿½ Loop protection including:

ï¿½ BPDU protection
ï¿½ Root protection (pending)
ï¿½ Loopback protection (pending)

ï¿½ Kensington Security Slot (Kensington Lock) support

Mounting

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

System LEDs

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

Power Supply LEDs

ï¿½ 2x bi-color LEDs for per power supply PWR&RPS

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Data Transferring LEDs

ï¿½ 12x green-color LEDs

Fan

ï¿½ 2

Environmental

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

Dimensions

ï¿½ 440mm(L) x200mm(W) x44mm(H)

Unit Weight

ï¿½ 3.15Kg

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 2x Rack-Mounting Kits
ï¿½ 8x Screws (KM 3*6)
ï¿½ 1x Quick Installation Guide
ï¿½ 1x Console Cable (Optional)
ï¿½ 1x RPS, External Redundant Power Supply(Optional)

Compliance

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

Price: £253.70