



Layer 3 Aggregation Managed Switches

GWN7830 - GWN7831 - GWN7832

The GWN7830 series are Layer 3 aggregation managed switches that allow enterprises to build scalable, secure, high performance and smart business networks that are fully manageable. It supports advanced VLAN for flexible and sophisticated traffic segmentation, advanced QoS for prioritization of network traffic, IGMP/MLD Snooping for network performance optimization, comprehensive security capabilities against potential attacks. GWN7830 series can be managed in a number of ways, including the local Web user interface of the switch and CLI, the command-line interface. And also supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform. With complete end-to-end quality of service and flexible security settings, the GWN7830 series are the best value enterprise-grade aggregation managed switches.



2/4 Gigabit Ethernet ports, 6/24 Gigabit SFP ports, and 4/12 10Gigabit SFP+ ports



Smart power control to support dynamic PoE/PoE+



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 Wi-Fi management platform



Built-in QoS allows for prioritization of network traffic

	GWN7830	GWN7831	GWN7832
Network Protocol		E 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE IEEE 802.3AB, IEEE 802.1p, IEEE 802.1D,	
Gigabit Ethernet Ports	2	4x Combo	/
Gigabit SFP+ Ports	6	24	/
Gigabit SFP+ Ports	4		12
	4		12
Console	2014	1	50)4/
Integrated Power Supply	30W	60W	60W
External Redundant Power Supply(RPS)	/	12V/60W	12V/60W
Auxiliary Ports		1x Reset Pinhole	
Forwarding Mode		Store-and-forward	
Total non-blocking throughput	48Gbps	64Gbps	120Gbps
Switching Capability	96Gbps	128Gbps	240Gbps
Forwarding Rate	71.424Mpps	95.232Mpps	80.352Mpps
Packet Buffer	12Mb	12Mb	16Mb
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Switching	16K MAC addresses, including static,	dynamic and filtering MAC address	32K 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	14 link aggregation	6 link aggregation
	33 3		Spanning tree, 64 instances for STP/
	Spanning tree, 32 instan	ces for STP/RSTP/MSTP	RSTP/MSTP
Routing	Policy routing(pending)		
Multicast	IGMP Snooping with IGMPv2 and IGMPv3 MLD Snooping with MLDv1 and MLDv2 MVR(pending)		
QoS/ACL	• Rate limit		
	2K ACL for Ethern		4K ACL for Ethernet, IPv4 and IPv6
DHCP		server, DHCP relay, Option 82, 60, 160 a	
Maintenance	CPU and memory monitoring, fault detection and alarm for power supply and fan, SNMP, RMON, LLDP&LLDP-MED,		
Security	User hierarchical management and password protection, HTTPS, SSH, Telnet 802.1X authentication AAA authentication including RADIUS, TACACS+ Storm control Death including north acquaints a tiple MAC		
Mounting	Desktop, Wall-Mount or Rack-Mount(rack-mounting kits included)		
System LEDs	1x tri-color LED for device tracking and status indication		
Power Supply LEDs	/	2x bi-color LEDs for per	
Data Transferring LEDs	12x green-color LEDs	32 green-color LEDs	12x bi-color LEDs for 1G/10G
	124 BLEELL-COLOL LEDS		
Fan	Operation: 0°0	2 C to 45°C, humidity 10% to 90% RH(Non	
Environmental	Storage: -10°C to 60°C, humidity: 10% to 90% RH(Non-condensing)		
Dimensions	330mm(L)x175mm(W)x44mm(H)		nm(W)x44mm(H)
Unit Weight (TBD)		TBD	
	1x Switch		
Package Content	1x 1.2m(10A) AC Cable 1x 25cm Ground Cable 4x Rubber Footpads 1x Power Cord Anti-Trip 2x Extended Rack-Mounting Kits 2x Rack-Mounting Kits		
	8x Screws(KM 3*6)		
	1x Quick Installation Guide		
		1x Console Cable(Optional)	
	/	1x RPS, External Redunda	nt Power Supply(Optional)
Compliance			

Features & Benefits

Powerful Business Processing Capabilities

- Routing including static routing, dynamic routing and policy routing to realize routing data communication between different network segments. Simpler, more efficient and more reliable.
- DHCP Server and Relay to assign IP address to hosts in the network.
- GVRP(pending) to realize VLAN dynamic distribution, registration and attribute propagation, reduce the amount of manual configuration, and ensure the correctness of configuration.
- QoS, including Port Priority, Priority Mapping, Queue Scheduling, Traffic Shaping and Rate Limit.
- ACL to realize the filtering of data packets by configuring matching rules, processing operations and time schedule, and provide flexible security access control policies.
- IGMP Snooping and MLD Snooping to meet the needs of multi-terminal HD video surveillance and video conference.
- IPv6 to meet the needs of the network transition from IPv4 to IPv6.

Multiple Security Prevention Mechanism

- Static MAC table, dynamic MAC table to allow data transmission, and filter MAC table to avoid network attacks.
- Packet filtering based on binding of IP address, MAC address, VLAN and port.
- Dynamic ARP Inspection to protect against ARP spoofing and ARP flooding attacks such as gateway spoofing, man-in-the middle attacks and etc. that are common in LAN environment.
- IP Source Guard to prevent illegal address spoofing including IP/MAC/ VLAN spoofing and IP/VLAN spoofing.
- DoS Attack Defense, including Land Attack, Smurf Attack, TCP SYN Attack, Ping Flooding and more.
- 802.1X, RADIUS, AAA, TACACS+ authentications to provide authentication function for LAN devices.
- Supports port security. When the number of MAC addresses learned by a port reaches the maximum number, it will be set to error-down status automatically or stop learning to prevent MAC address attack and control the network traffic of the port.
- Supports DHCP Snooping. Only allow DHCP packets from trusted ports to keep the enterprise DHCP environment safe.

Diverse Reliability Protection

- RPS, External redundant power module(optional), ensures stable business use continuously.
- Support fault detection and alarm for power supply and fan, and automatically adjust the fan speed based on temperature changes to better adapt to the environment.
- Multiple reliability protection at device level, such as overcurrent protection, overvoltage protection, overheat technology and 6KV surge protection.
- Dual boot of hardware level. Use two FLASH chips to store boot software(system boot program), achieve hardware level boot redundancy backup, and avoid switching failure due to FLASH chip failures.
- Dual system file redundancy backup ensures the normal startup and operation of the system, and improves the stability of the device.
- STP/RSTP/MSTP to guarantee fast convergence, improve fault tolerance, ensure stable network and provide link load balance, and redundancy.
- Compatible with PVST/PVST+(pending) for faster convergence. Optimizing network performance through VLAN-based network load balance.
- ERPS(pending), loopback detection to identify and remove loops on the network.
- VRRP(pending) to minimize network downtime caused by gateway failure.
- Link aggregation to increase bandwidth, improve reliability and load balancing.
- Storm control to prevent traffic interruption caused by broadcast, multicast or certain unicast packets.

Easy Management and Maintenance

- Managed by Web GUI, CLI(Console, Telnet, SSH) and SNMP(v1/v2c/v3).
- Monitoring of CPU and memory usage. Support common networking tools such as Ping, Traceroute, UDLD(TBD) and Copper Test to analysis networking issues.
- Supports RMON, Syslog, traffic statistics and sFlow(pending) for network optimization.
- LLDP and LLDP-MED for automatic discovery, provisioning and management of endpoint devices.
- · Managed by GWN.Cloud and GWN Manager.

Power & Green Energy Efficiency

- High efficiency power supply module, higher efficiency of power supply system
- All Ethernet ports support EEE(Energy Efficient Ethernet), fast transitions between normal operation and low power states with low traffic and low power consumption
- Intelligent control of fan speed based on environmental temperature.
 Precise temperature control, energy saving and noise reduction.

IPv4/IPv6 Dual Protocol Stack

- IPv4 routing protocol, including IPv4 unicast routing to satisfy different networking needs.
- IPv6 routing protocols, including IPv6 unicast routing to satisfy different networking needs.
- Supports IPv6 static routing, RIPng, OSPFv3 and IPv6 multicast to meet the requirements of IPv6 independent networking and IPv4/IPv6 hybrid networking.