GWN7830 Series - Layer 3 Aggregation Managed Switch Overview and Basics

About the GWN7830 Series

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 prioriti zation 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 commandline interface. And also supported by GWN.Cloud and GWN Manager , Grandstream's cloud and on-premise network management platform.

Product Positioning

With complete end-to-end quality of service and flexible security settings, the GWN7830 series are the best value enterprise-grade aggregation managed switches. They come with awide range of features to allow them to be a backbone for any Wi-Fi access point or IP endpoint deployment, including advanced QoS features, advanced VLAN configuration for traffic segmentation, IGMP/MLD Snooping, and more.

Support for up to 12 10 Gigabit SFP+ ports

Management through embedded controller and GWN.Cloud and GWN Manager

Built-in QoS for prioritization of network traffic

Competitive Features

- 2/4 Gigabit Ethernet ports, 6/24 Gigabit SFP ports, and 4/12 10 Gigabit SFP+ ports
- Supports deployment in IPv6 and IPv4 networks
- Provides quaternary binding of IP, MAC, VLAN, and port; ARP Inspection, IP Source Guard, DoS protection, port security, and DHCP snooping
- Management through embedded controller or GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform
- Built-in QoS allows for the prioritization of network traffic

GWN7830 Key Technical Specifications

	GWN7830	GWN7831	GWN7832
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		
QoS/ACL	2 Gigabit Ethernet Ports / 6 SFP Ports / 4 SFP+ Ports	4x Combo Gigabit Ethernet Ports / 24 SFP Ports / 4 SFP+ Ports	12 SFP+ Ports
Max Output Power (PoE Models)	30W per Port, 120W Total	30W per Port, 240W Total	30W per Port, 360W Total
Switching Capability	96Gbps	128Gbps	240Gbps
Forwarding Rate	71.424M packets per second	95.232M packets per second	80.352M packets per second
Switching	16K (32K on GWN7832) 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 (64 on GWN7832) instances for STP/RSTP/MSTP		

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Deployment Scenarios - Deployment Diagram

GWN.CLOUD

Internet

GDMS

Router and Firewall

UCM6300 IP PBX

GWN7830 Layer 3 Aggregate Switch

GWN7830 Layer 3 Aggregate Switch

GWN7701M Unmanaged Switch

GWN7803 Layer 2+ Switch

Wi-Fi Access Points

Wi-Fi Capable Devices

Ethernet IP Endpoints and Workstations