# GWN7831 vs Industry Competition

Network Management

The GWN7831 and TP-Link TL-SG3428XF offer free-of-cost network management. The GWN7831 offers management options via the GWN.Cloud and GWN Manager and the TP-Link TL-SG3428XF offers management options through the Omada cloud-based controller, hardware controller and software controller. The Cisco Meraki MS410-32 offers paid management via the web with the Meraki cloud managementr platform leading to extra costs on top of the list price of the switch.
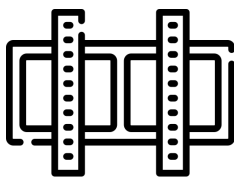
Mounting

The GWN7831 is desktop, wall and rack mountable making this switch easy to set up and convenient to use as compared to the TP-Link TL-SG3428XF and Cisco Meraki MS410-32 which are only rack mountable.

Pricing

The GWN7831 aggregation switch is very reasonably priced at $389 compared to the Cisco Meraki MS410-32 Layer 3 aggregation switch which is very expensively priced at $19,872. The Meraki MS410-32 is superior to the GWN7831 with a few features but does not justify the difference in price. The TP-Link TL-SG3428XF is priced slightly cheaper at $349, however it is a Layer 2+ Managed switch and does not boast some of the features that the GWN7831 has.

	GWN7831	TP-LINK TL-SG3428XF	Cisco Meraki MS410-32
Type of Switch	Layer 3 Aggregation Switch	Layer 2+ Managed Switch	Layer 3 Aggregation Switch
Gigabit Ethernet Ports	4x Combo	4x Combo	-
Gigabit SFP Ports	24	20x Gigabit SFP Ports and 4x Gigabit SFP/RJ45 Combo Ports	32
Gigabit SFP+ Ports	4	4	4
Integrated Power Supply	60W	35.7W	85W
External Redundant Power Supply (RPS)	12V/60W	N/A	N/A
Auxillary Ports	1x Auxillary Port (Reset Pinhole)	1x RJ45 Console Port and 1x Micro-USB Console Port	1x Management Port with auto-MDIX
Total non-blocking throughput	64Gbps	64Gbps	72Gbps
Switching Capability	128Gbps	128Gbps	144Gbps
Forwarding Rate	95.232Mpps	95.232Mpps	107.14Mpps
Packet Buffer	12Mb	12Mb	N/A
Switching	• 4K VLANs, port-based VLAN, IEEE 802.1Q VLAN tagging, voice VLAN • VLAN virtual interface • GVRP(pending) • 14 link aggregation • Spanning tree, 32 instances for STP/RSTP/MSTP	• 4K VLANs, voice VLAN, private VLAN, 802.1Q tagged VLAN, VLAN group • Spanning tree protocol (STP) • Up to 8 aggregation groups, contains 8 groups per port	• 4K VLANs, IEEE 802.1Q VLAN tagging • Spanning tree protocol (STP) and Rapid Spanning Tree Broadcast storm control • 802.3ad Link aggregation with up to 8 ports per aggregate
Routing	• Static routing • Dynamic routing, including RIP, RIPng, OSPF and OSPFv3 • Policy routing(pending) • DHCP server, DHCP relay, Option 82, 60, 160 and 43	• Static Routing • DHCP server, DHCP relay and DHCP L2 relay	• Static and OSPFv2 Dynamic routing • DHCP server and DHCP relay • Warm Spare (VRRP)
QoS/ACL	2K ACL for Ethernet, IPv4 and IPv6	ACL for IPv4 and IPv6	ACL for IPv4 and IPv6
Mounting	Desktop, Wall-Mount or Rack-Mount(rack-mounting kits included)	Rack Mount	Rack Mount
LEDs	1x tri-color LED for device tracking and status indication and 2x bi-color LEDs for per power supply PWR&RPS	N/A	2x LEDs for PSU and status
Fan	2	1	2
Dimensions	440mm(L)x200mm(W)x44mm(H)	440mm(L)x220mm(W)X44mm(H)	516mm(L)x484mm(W)x44mm(H)
Unit Weight	3.15Kg	1.94kg	5.7Kg
Network Management	Free management with GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform	Free management with Omada Cloud-Based Controller, Omada Hardware Controller (OC300), Omada Hardware Controller (OC200) and Omada Software Controller	Paid management via the Web with the Meraki cloud management platform
Compliance	FCC, CE, RCM, IC, UKCA	FCC, CE, RoHS	CE, CSA, IC, C-Tick, RoHS
List Price	$389	$349	$19,872