GRANDSTREAM

GWN7816P vs. Industry Competition

Quality of Service
The GWN7816P, Netgear GS752TPP and Meraki MS350-48FP have QoS whereas the Unifi USW-Enterprise-48 PoE does not have QoS, thereby reducing the quality and relaibility of the product

PoE++
The GWN7816P is the only model that supports PoE++ on 8 out of the 48 ports. PoE++ is the next generation of PoE+ technology, allowing each PoE++ port to support 60W of output power port providing more power to the switch and the ability to support more bandwidth.

Gigabit Ports
The GWN7816P has 48 PoE Ports and 6 SFP+ Ports, which is more than the Unifi USW-Enterprise-48 PoE, Netgear GS752TPP and Meraki MS350-48FP that have the same number of PoE ports but only 4 SFP+ ports. The GWN7816P is the only model with a serial console port and auxillary port.

Free Management Options
The GWN7816P offers 3 free management options: cloud based (GWN.Cloud), software based (GWN Manager) and embedded (built-in to the web UI). The Unifi USW-Enterprise-48 PoE also offers free management via the Unifi controller. However, the Netgear GS752TPP and Meraki MS350-48FP offer paid subscription models through Netgear Insight and Meraki cloud management platform respectively.

List Price
The GWN7816P is by far the most cost effective model as compared to the Unifi USW-Enterprise-48 PoE, Netgear GS752TPP and the Meraki MS350-48FP even though the features of the GWN7816P are far superior to the other 3 models in many aspects. The price of the GWN7816P is $949 cheaper than the Unifi USW-Enterprise- 48 PoE, Netgear GS752TPP and Meraki MS225-48LP-HW priced at $1599, 1099 and $2559 respectively.

	GWN7816P	Unifi USW-Enterprise-48 PoE	Netgear GS752TPP	Meraki MS350-48FP
Type of Switch	Layer 3 Managed Switch	Layer 3 Managed Switch	Layer 3 Managed Switch	Layer 3 Managed Switch
Gigabit Ethernet Ports	48	48	48	48
Gigabit SFP+ Ports	6	4	4	4
Serial Console Port	1	no serial console port	no serial console port	no serial console port
Number of PoE Ports	48	48	48	48
Max Output Power Per PoE Port	60W (ports 1-8, PoE++) 30W (ports 9-48)	34.2W (PoE+ only)	30W	30W
Max Total PoE Output Power	740W with 1 PSU	720W	760W	740W
PoE Standard	IEEE 802.3af/at/bt	IEEE 802.3af/at	IEEE 802.3af/at	IEEE 802.3af/at
Auxillary Ports	1x Reset Pinhole	No Auxillary Port	No Auxillary Port	No Auxillary Port
Total Non-Blocking Throughput	108 Gbps	160 Gbps	52 Gbps	88 Gbps
Switching Capability	216 Gbps	320 Gbps	104 Gbps	176 Gbps
Forwarding Rate	160.704 Mpps	238.095 Mpps	77.38 Mpps	127.98 Mpps
Packet Buffer	16Mb	-	1.5Mb	-
Switch Configuration	4k VLAN supported, port-based VLAN, VLAN tagging and spanning tree configuration	Network/VLAN configuration, 802.1X control and radius VLAN and spanning tree configuration	256 VLAN supported, Multicast VLAN, private VLAN, and spanning tree protocol	4k VLAN supported, voice VLAN and rapid spanning tree protocol
QoS/ACL	Yes	No	Yes	Yes
Fan	4 fans	fanless (no noise)	3 internal fans	2 internal fans
Mounting	Desktop and Rack mount (rack-mounting kits included)	Wall-mountable with mount brackets (kit included)	Rack mount (kit included)	1U Rack Mountable with rack mount hardware, 2-post front mounting options available and desktop-mountable with included feet
Compliance	FCC, CE, RCM, IC, UKCA	FCC, CE, IC	FCC, CE, CCC, IC	CSA-US, FCC, IC, CE, RCM, RoHS
Management	Embedded controller to manage switch; GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise network management platform, CLI management	Device management via Unifi controller	Device management via Netgear Insight (Basic plan is free which includes 2 switches, Insight premium is a subscription based service)	Device management via the Web with the Meraki cloud management platform (paid), SNMP and syslog support
List Price	$949	$1599	$1099	$2559