

 GRANDSTREAM

# GWN7806 vs. Industry Competition



**Quality of Service**

The GWN7806 and TP-Link TL-SG3452X have QoS whereas the Unifi USW-48-PoE does not have QoS thereby reducing the quality and reliability of the product.



**Gigabit**  
**Gigabit Ports**

The GWN7806P has 48 PoE Ports and 6 SFP Ports, which is more than the Unifi USW-48 which has 4 SFP Ports. The TP-Link TL-SG3452X has the same number of Ports as the GWN7806 but has only 4 SFP Ports. The GWN7806P is the only model with an auxillary port.






**Forwarding Rate**

The GWN7806 has a forwarding rate of 160.704 Mpps which is more than double od the Unifi USW-48 which has a forwarding rate of 77.376Mpps. The GWN7806 also has a higher forwarding rate than the TP-Link TL-SG3452X which has a forwarding rate of 130.9Mpps. The GWN7806P will process the number of network packets quicker than the other 2 models.



**List Price**

The GWN7806 has a list price of \$429 which is slightly higher than the TP-Link TL-SG3452X which has a lit price of \$339. However, the features of the GWN7806 are far superior than the TP-Link TL-SG3452X in terms of switching capability, forwarding rate, compliance, etc. The Unifi-USW-48 is higher priced at \$519 and the features are way inferior to the GWN7806. Thereby GWN7806 is the most cost efferctive model out of the 3.

	 GWN7806	 TP-Link TL-SG3452X	 Unifi-USW-48
Gigabit Ethernet Ports	48	48	48
Gigabit SFP Ports	6	4x 10G SFP+ slots	4
Serial Console Port	1	1x RJ45 console port and 1x Micro-USB console port	1
Integrated Power Supply	60W	32.72W	40W
Auxillary Ports	1x Reset Pinhole	No Auxillary Port	No Auxillary Port
Total Non-Blocking Throughput	108 Gbps	88 Gbps	52 Gbps
Switching Capability	216 Gbps	176 Gbps	104 Gbps
Forwarding Rate	160.704 Mpps	130.9 Mpps	77.376 Mpps
Switch Configuration	4K VLAN supported, port-based VLAN, VLAN tagging and spanning tree configuration	4K VLAN, 802.1Q Tagged VLAN, Voice VLAN, Private VLAN, VLAN VPN	Network/VLAN configuration, 802.1X control and radius VLAN and spanning tree configuration
QoS/ACL	Yes	Yes	No
Fan	3 fans	fanless (no noise)	fanless (no noise)
Mounting	Desktop and Rack mount (rack-mounting kits included)	Rackmountable (rack mount kit included)	Wall-mountable with mount brackets (kit included)
Compliance	FCC, CE, RCM, IC, UKCA	FCC, CE, RoHS	FCC, CE, IC
Management	Device management via SNMP, RMON, CLI, HTTPS, TR069, GWN Manager, GWN.Cloud	Device management via Omada Cloud-Based Controller and Omada Software Controller	Device management via Unifi controller
List Price	\$429	\$339	\$519