GWN7802P vs. Industry Competition

PoE Power Supply

The max total PoE Output Power of the GWN7802P and the Ruijie RG-ES218GC-P is the highest at 240W making these switches the most powerful. The Netgear GS316PP has a slightly lesser max total PoE Output Power at 231W. The Unifi ES-16-150W is the least powerful at 150W.
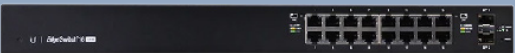
Forwarding Rate

The GWN7802P has the highest forwarding rate of 29.76 mega packets per sound which means that this switch will process the number of network packets quicker than the Unifi ES-16-150W and Ruijie RG-ES218GC-P at 26.78 Mpps. The Netgear GS316EPP has a slightlly higher forwarding rate than the ES-16-150W and the RG-ES218GC-P but still lower than the GWN7802P at 27.78 Mpps

Quality of Service

The GWN7802P and Netgear GS316PP both have QoS whereas the Unifi ES-16-150W and Ruijie RG-ES218GC-P do not have QoS thereby reducing the credibility and reliability of the product.

	GWN7802P	**Unifi ES-16-150W**	**Netgear GS316EPP**	**Ruijie RG-ES218GC-P**
Gigabit Ethernet Ports	16	16	15	16
Gigabit SFP Ports	4	2	1	2
Serial Console Port	1	1	-	-
Number of PoE Ports	16	16	15	16
Integrated Power Supply	270W	150W	254W	280W
Max Output Power Per PoE Port	30W	34.2W (PoE+), 17W (PoE)	30W	30W
Max Total PoE Output Power	240W	150W	231W	240W
PoE Standard	IEEE 802.3af/at	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	20 Gbps	26 Gbps	16 Gbps	18 Gbps
Switching Capability	40 Gbps	52 Gbps	32Gbps	36Gbps
Forwarding Rate	29.76 Mpps	26.78 Mpps	27.78 Mpps	26.78 Mpps
Switch Configuration	4k VLAN supported, port-based VLAN, VLAN tagging and spanning tree configuratio	4k VLAN supported	64 VLAN, VLAN supported for traffic segmentation	Support 802.1Q VLAN
QoS/ACL	Yes	No	Yes	No
Fan	1 Fan	Has fans (runs at booth for about 10 seconds)	Fanless	Built-in Fan, lower than 25 degrees it stops running
Mounting	Desktop, Wall-mount or Rack-mount (rack-mount brackets included)	Rackmountable with Rack-Mount Brackets (Included)	Desktop and wall mountable	Rackmountable
Compliance	FCC, CE, RCM, IC, UKCA	CE, FCC, IC	FCC, CE, VCCI, ACMA, CSA, KC, BSMI	CE, RoHS
Management	Device management via SNMP, RMON, CLI, HTTPS, TR069, GWN Manager, GWN.Cloud	Device management via UniFi Controller	Device management using the Netgear Insight App or ManageEngine Network Configuration Manager	Device management and configuration through web management interface, Ruijie Cloud platform and Ruijie Cloud app