QASA SWITCHES





PRODUCT OVERVIEW

- o QQ-SW-155 Series Uses store-and-forward technology, combined with dynamic memory allocation, to ensure the effective bandwidth allocated to each port.
- o QASA Switches are easy to use and can flexibly expand home and office networks without limitation of power line layout. It is easy to manage and maintain and meets the requirements of different scenarios.
- o QASA series are Web Smart Managed PoE Switches independently developed by Quantum. It provides 48*10/100/1000Mbps RJ45 ports and 6*1000Mbps SFP slots. Each RJ45 port supports the PoE power supply function and complies with IEEE 802.3af/at standards.
- o Supports enterprise-class features, including VLAN types (Data, Private, Guest (802.1x) auto-voice VLAN, Multicast TV VLAN), Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function.
- o It provides high performance, enterprise-level QoS, advanced security strategies, these smart managed switches are a versatile solution for deployments that require easy configuring functionality without added complexities.
- o Two-year limited liability manufacturer's warranty from day one.

HIGHLIGHTS

o Large support of IEEE standards.

Supports IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1X, IEEE 802.1q, IEEE 802.1p, IEEE 802.1d, IEEE 802.1w, IEEE 802.3ad.

o Enhanced QoS.

Switch support configurable QoS queues for converged voice, video, and data applications.

o Reliable performance.

Delivers Stability, Scalability, and Effortless handling of diverse workloads.

- The switch supports a non-blocking architecture that provides from 20 Gbps to 216 Gbps of wire-speed switching capacity and from 14.88 to 160.70 Mpps of forwarding capacity, allowing it to handle a wide range of workloads.
- For better network security, the switch supports multiple authentication methods, including 802.1x and MAC authentication. The switch provides identity-driven security and controls via granular Access Control Lists (ACLs).

o Easy to manage.

Switch can be managed through web, CLI (Telnet, SSH), SNMP and RMON.



FEATURE	SPECIFICATIONS								
Communication Ports- QQ-SW-1	55-Series								
	1G RJ45 Port	1G SFP Upl Port	ink 10G SFP+ Uplink Port	Con:	sole Port 45)	Power Budget (Watt)	Max PoE (802.3af)	Max PoE+ (802.3at)	
QQ-SW-155-G48P-6SFPP	48		6	1		880	48	24	
QQ-SW-155-G48-6SFPP	48		6	1					
QQ-SW-155-GF24-4SFPP-DAC		24	4	1					
QQ-SW-155-G24FP-4SFPP	24		4	1		720	24	24	
QQ-SW-155-G24P-4SFPP	24		4	1		400	24	12	
QQ-SW-155-G24P-4SFPP-DAC	24		4	1		400	24	12	
QQ-SW-155-G24-4SFPP	24		4	1					
QQ-SW-155-G24-4SFPP-DAC	24		4	1					
QQ-SW-155-G16FP-4SFPP	16		4	1		480	16	16	
QQ-SW-155-G16P-4SFPP	16		4	1		260	16	8	
QQ-SW-155-G16-4SFPP	16		4	1		-	-	-	
QQ-SW-155-G8FP-2SFP	8	2		1		280	8	8	
QQ-SW-155-G8P-2SFP	8	2		1		140	8	4	
QQ-SW-155-G8-2SFP	8	2		1		-	-	-	
Capacity	48 Port	2	24 Port		16 Port		8 Port		
Switching capacity	216 Gbps	1	L28 Gbps		112 Gbp)S	20 Gbps		
Forwarding rate	160.70 Mpps	9	95.23 Mpps		83.32 M	pps	14.88 Mp	pps	
Packet buffer	12 Mbit	1	12 Mbit		12 Mbit		8 Mbit	8 Mbit	
MAC address table	16k Entries	1	16k Entries		16k Entries		8k Entrie	8k Entries	
VLANs	4096		4096		4096		4096	4096	
Maximum jumbo frame size	9,216 bytes	9	9,216 bytes		9,216 bytes		9,216 byt	9,216 bytes	
Link aggregation groups	Max 8	ľ	Max 8		Max 8		Max 8	Max 8	
Link aggregation ports per group	Max 8		Max 8		Max 8		Max 8		
QoS priority queues	8 per port	8	8 per port		8 per port		8 per por	8 per port	
Quality of Service									
Hardware queues			Ingress / Egress rewrite						
DSCP to DSCP mapping			Drop-precedence						
DSCP to DP mapping			Internal-priority						
DSCP to Queue mapping			VLAN Based class of service						
COS to DP mapping			Port Based class of service						
COS to Queue mapping			802.1p/COS/DSCP/IP precedence						
Trust COS/DSCP			QoS Based on TCP/UDP (IPv4/IPv6)						



SP/WRR/WDRR	Ingress/Egress rate limiting	
Aggregate policy map	IPv4/IPv6 QoS (QCEs)	
CAR stream shaping (leak algorithm)		
Layer 2		
MAC notification	Q-in-Q (Double tag)	
STP, RSTP, MSTP	Selective / Flexible Q-in-Q	
Management VLANs	Auto MDI/MDIX	
Private VLANs	BPDU Guard	
GVRP/GMRP	IGMP/IGMP snooping v1/v2/v3*	
MAC based VLANs	MTU	
802.1v protocol VLAN	MRPP	
Multicast VLAN	ERPS	
Auto voice VLAN	Auto surveillance VLAN	
VLAN translation/N:1 VLAN translation	MVR	
Guest VLAN	Fast leave	
IGMP proxy	Loopback detection	
MLD snooping v1/v2	CFM (802.1ag)	
Port mirroring	EFM OAM (802.3ah)	
Link aggregation with LACP	DDM	
Jumbo frame	Virtual cable test	
Layer 3 (Essential)		
Static routing	DHCP server	
Static ARP	DHCPv6 server	
Route aggregation		
Security		
Port security	IPv6 ACL	
Port isolation	Management access list	
ARP scanning prevention	Management ACL/Management ACE	
ARP spoofing prevention	IP source guard (IP-MAC-Port-VLAN Binding)	
ARP guard	IP source guard (IP-MAC-Port Binding)	
Gratuitous ARP	Dynamic ARP inspection	
ARP quantity control	Storm control	
Anti ICMP attack	RADIUS/TACACS+	
ICMP rate limit	RADIUS authentication (RFC2138)	
ICMP unreachable drop	DDoS prevention (TCP flag, TCP fragment, IP segment, ICMP)	
802.1x Port/MAC based authentication	HTTPs and SSL (secured web)	
802.1x EAP support	SSH v1.5/v2.0 (secured telnet session)	
L2+/L3/L4 ACL	DHCP snooping	



MAC ACL	DHCP option 82/43/60/61/66/67
Time based ACL	DHCP relay
Management	
RMON (1,2,3 & 9 groups)	RSPAN
FTP/TFTP	Configuration Export/Import
SNMP (v1, v2c, v3)	Syslog
Firmware Upgrade/Backup	HTTP/HTTPS
Software/Hardware watchdog	Telnet
CPU protect	LLDP/LLDP-MED
MRRP (ERRP compatible)	UDLD
ULPP (Uplink Protection Protocol)	DNS client
Smart link/Monitor link	Cable test
Uplink State Monitor	DDMI
Port/CPU/Flow based mirroring	NTP/ SNTP(RFC2030)
IPv6 Support	
Dual IPv6/IPv4 stack	IPv6 SNMP
IPv6 Web/SSL	IPv6 IPsec support
IPv6 SNTP (Simple network time protocol)	IPv6 ND snooping
IPv6 Telnet / SSH	DHCPv6 relay
IPv6 Ping / Traceroute	DHCPv6 snooping
IPv6 TFTP	IPv6 SAVI
IPv6 RADIUS/TACACS+	HTTP over IPv6
ONVIF	
ONVIF detection	ONVIF server (NLM)
Standard Compliance	
IEEE Standards Compliance	
802.1AB LLDP/ LLDP-MED	802.3ae 10 gigabit ethernet
802.1D MAC bridging	802.3at power over ethernet Plus
802.1p mapping to priority queue	802.3u 100 Base-TX
802.1s Multiple Spanning Tree (MST)	802.3x flow control
802.1w Rapid Reconfiguration of Spanning Tree (RSTP)	802.3z 1000Base-SX/LX
802.1x Port-based Network Access Control (PNAC)	802.3 MAU MIB (RFC 2239)
802.3 Carrier Sense Multiple Access/Collision Detection (CSMA/CD)	802.1Q VLAN tagging
802.3ab 1000BASE-T	802.3az Energy Efficient Ethernet
802.3 10 Base-T	802.3af Power over Ethernet
802.3ad link aggregation (Dynamic and Static)	



Err disable detection and recovery		CPU utilization	CPU utilization			
Device temp/PSU/FAN/status display & alarm		User operation logs	User operation logs			
Virtual cable test ICMPv4/v6		Management logs, alarms	Management logs, alarms DDM (Digital Diagnostic Monitoring)			
		DDM (Digital Diagnostic Monito				
Traceroute		UDLD (Unidirectional Link Detec	UDLD (Unidirectional Link Detection)			
Physical	Net Weight	Dimensions	MTBF (25°C)			
G48P-6SFPP (PoE)	4.12 Kg	440x260x44mm (LxWxH)	1,00.000 Hours			
G48-6SFPP (Non PoE)	3.15 Kg	440x260x44mm (LxWxH)	1,00.000 Hours			
GF24-4SFPP-DAC	3.1 Kg	440x207x44.5 mm (LxWxH)	1,00.000 Hours			
G24FP-4SFPP (Full PoE)	4.01 Kg	440x207x44.5 mm (LxWxH)	1,00.000 Hours			
G24P-4SFPP (PoE)	3.36 Kg	440x207x44.5 mm (LxWxH)	1,00.000 Hours			
G24P-4SFPP-DAC	3.75 Kg	440x207x44.5 mm (LxWxH)	1,00.000 Hours			
G24-4SFPP (Non PoE)	2.71 Kg	440x207x44.5 mm (LxWxH)	1,00.000 Hours			
G24-4SFPP-DAC	3.1 Kg	440x207x44.5 mm (LxWxH)	1,00.000 Hours			
G16FP-4SFPP (Full PoE)	3.09 Kg	440x207x44 mm (LxWxH)	1,00.000 Hours			
G16P-4SFPP (PoE)	2.93 Kg	440x207x44 mm (LxWxH)	1,00.000 Hours			
G16-4SFPP (Non PoE)	1.82 Kg	440x207x44 mm (LxWxH)	1,00.000 Hours			
G8FP-2SFPP (Full PoE)	2.37 Kg	280x180x44 mm (LxWxH)	1,00.000 Hours			
G8P-2SFP (PoE)	1.86 Kg	280x180x44 mm (LxWxH)	1,00.000 Hours			
G8-2SFP (Non PoE)	1.35 Kg	280x180x44 mm (LxWxH)	1,00.000 Hours			
Environment						
Operating temperature	-5°C ~ 55 °C					
Storage temperature	-40 °C ~ 70 °C	-40 °C ~ 70 °C				
Operating humidity	- 5% ~ 95% non-conder	- 5% ~ 95% non-condensing				
Storage humidity	5% ~ 90% non-condens	5% ~ 90% non-condensing				
Surge protection	Differential mode ±2KV	Differential mode ±2KV Common mode ±4KV				
MTBF	>100000 hour	>100000 hour				
Certification & Compliand	es					
Regulatory	FCC	FCC				
Standard	IEC-60950	IEC-60950				
Environmental	CE	CE				
	RoHS					



ORDERING INFORMATION

Part Number	Description	
QQ-SW-155-G48P-6SFPP	Networking managed switch, 48×1G Base T ports, 6×10G SFP uplink-ports, 880W power budget, 2 years warranty.	
QQ-SW-155-G48-6SFPP	Networking managed switch, 48×1G Base T ports, 6×10G SFP uplink-ports, 2 years warranty.	
QQ-SW-155-GF24-4SFPP-DAC	Networking Managed Switch, 24×1G SFP ports, 4×10G SFP+ Uplink-ports, 2 Years Warranty, Dual Redundant AC Power supply.	
QQ-SW-155-G24FP-4SFPP	Networking managed switch, 24×1G Base T ports, 4×10G SFP uplink-ports, 720W power budget, 2 years warranty.	
QQ-SW-155-G24P-4SFPP	Networking managed switch, 24×1G Base T ports, 4×10G SFP uplink-ports, 400W power budget, 2 years warranty.	
QQ-SW-155-G24P-4SFPP-DAC	Networking Managed Switch, 24×1G Base T ports with 400W Power Budget, 4×10G SFP+ Uplink-ports, 2 Years Warranty, Dual Redundant AC Power supply.	
QQ-SW-155-G24-4SFPP	Networking managed switch, 24×1G Base T ports, 4×10G SFP uplink-ports, 2 years warranty.	
QQ-SW-155-G24-4SFPP-DAC	Networking Managed Switch, 24×1G Base T ports, 4×10G SFP+ Uplink-ports, 2 Years Warranty, Dual Redundant AC Power supply.	
QQ-SW-155-G16FP-4SFPP	Networking managed switch, 16×1G Base T ports, 4×10G SFP uplink-ports, 480W power budget, 2 years warranty.	
QQ-SW-155-G16P-4SFPP	Networking managed switch, 16×1G Base T ports, 4×10G SFP uplink-ports, 260W power budget, 2 years warranty.	
QQ-SW-155-G16-4SFPP	Networking managed switch, 16×1G Base T ports, 4×10G SFP uplink-ports, 2 years warranty.	
QQ-SW-155-G8FP-2SFP	Networking managed switch, 8×1G Base T ports, 280W power budget, 2×1G SFP uplink-ports, 2 years warranty	
QQ-SW-155-G8P-2SFP	Networking managed switch, 8×1G Base T ports, 140W power budget, 2×1G SFP uplink-ports, 2 years warranty	
QQ-SW-155-G8-2SFP	Networking managed switch, 8×1G Base T ports, 2×1G SFP uplink-ports, 2 years warranty	