QASA SWITCH
QQ-IS-220-G8FP-2SFP

PRODUCT OVERVIEW

o   QQ-IS-220-G8FP-2SFP Switch 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 8*10/100/1000Mbps RJ45 ports and 2x1 GbE 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.
   o   The switch supports a non-blocking architecture that provides from 20 Gbps of wire-speed switching capacity and 14.88 Mpps of forwarding capacity, allowing it to handle a wide range of workloads.
   o   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.

KEY SPECIFICATION

Communication Ports	Specification				
Model	Gigabit Ethernet RJ45 Downlinks	1G Fiber Uplinks	PoE Budget (Watt)	Max PoE (802.3af)	Max PoE+ (802.3at)
QN-IS-220-G8FP-2SFP	8	2	240	8	8
Management Ports					
Console RJ45	1				
Capacity					
Switching capacity	20Gbps				
Forwarding rate	14.8Mpps				
Packet buffer size	8 Mbit				
VLANs	4094				
MAC address table	8K Entries				
Maximum jumbo frame size	9,216 bytes				
Link aggregation groups	Max 32				
Link aggregation ports per group	Max 8				
QoS priority queues	8 per port				

Quality of Service	
WRR support	QoS based on classification
Strict priority support	802.1p support
DSCP Prioritization	

Layer 3	
Static ARP	DHCP relay
IPv6 ND	IPv4 static routing
IP source guard	DHCP server

Layer 2	
Forwarding rate	IGMP/IGMP snooping v1/v2/v3
Switching throughput	LLDP/LLDP MED
STP, RSTP	Port mirroring (Port, ACL, VLAN-Based)
MSTP	Ping/Traceroute/ICMPv6
VLAN (MAC, Protocol, Port based)	Storm control (Broadcast, Multicast, Unicast)
Loopback detection	GVRP
Auto MDI/MDIX	Energy Efficient Ethernet
BPDU guard, root guard	

Security	
ACLs	SSH
DHCP snooping	Secure copy (SCP)
MAC authentication	DoS protection

Radius/Tacacs/Tacacs+, AAA	Local username/password

Management

Industrial standard CLI	Telnet support
Local management	SNTP
SNMP v1/v2c/v3	Syslog server
TFTP support	Uplink State Monitor
SPAN/RSPAN	Firmware auto-install support
RMON	Password management

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 100Base-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

Monitoring and Troubleshooting

Errdisable detection and recovery	CPU Utilization
Device temp/ Status display & alarm	User operation logs
Virtual cable test	Management logs, alarms
ICMPv4/v6	DDM (Digital Diagnostic Monitoring)
Traceroute	UDLD (Unidirectional Link Detection)

Environment

Operating temperature	-40°C to 75°C
Humidity	5% ~ 95% non-condensing
RoHS	Compliant
IP rating	IP40
Power consumption	10W Max
Dual redundant power input	DC 24-48V
Input voltage	PoE DC48-58V (Switch required DC 24-48V)
Surge protection	Yes

ORDERING INFORMATION

Part Number	Description
QQ-IS-220-G8FP-2SFP	Quantum Qasa QQ-IS-220-G8FP-2SFP Industrial Switch,8×10/100/1000 Base T ports,2x1 GbE SFP Uplink Ports, Includes 2 Years online activation warranty. Does not include power supplies.