

QMP-2820G-4X16S-bt-T

GIGABIT POE++ MANAGED ETHERNET SWITCH

FEATURES

- Support 8*10/100/1000Tx RJ45 with PoE++ (90W per port), 16*100/1000 SFP, and 4*1000/2.5G/10G SFP
- IEEE1588 v.2-based Precision Time Synchronization (PTPv.2) Profiles: 1588, G.8265.1 and G.8275.1
- ITU-T G.8032 compliant Ring Operation with < 20ms reconfiguration, up to 64 rings simultaneously
- NTP Protocol in Server/Client Mode and SNTP
- Support for PROFINET Conformance Class A
- Ethernet OAM support (Link OAM and Service OAM)
- Access Security SNMPv3, HTTPS, and SSH
- Rugged 19" 1U Metal Enclosure
- Redundant DC Power Supply
- Operating Temperature Range: -40° to 85°C
- 5-Year Warranty



INTRODUCTION

Antaira Technologies' QMP-2820G-4Q16S-bt-T features a versatile interface, including 8 RJ45 ports (10/100/1000) that support high-power PoE, up to 90W per port. It also includes 16 SFP ports (100/1000) and 4 SFP ports (1G/2.5G/10G). The total power output for all PoE ports is capped at 500W.

For enhanced reliability, the device incorporates standard built-in secondary 4kV 10/700µs ITU K.44 surge protection on the RJ45 ports' transmission path. It also offers standard support for precision time synchronization profiles based on IEEE1588 v.2 (PTPv.2), specifically 1588 default, G.8265.1, and G.8275.1. The unit is powered by a 36-60V DC redundant power supply, with 45-57V required for PoE++ applications.

SPECIFICATIONS

Hardware Specifications

Total Ports	RJ-45 GE	SFP 1G Fiber	SFP 1/2.5/10G Fiber	90W PoE++	PoE Power Budget	System Power	Input Voltage	Operating Temp.
28	8	16	4	8	500W @ 55VDC	50W without PoE	36-60VDC, redundant	-40 to 85°C -40 to 185°F

Physical Specifications

Dimensions (W x H x D)	Weight (Unit)	Weight (Shipping)	Mounting	Housing	PoE LED Indicator
440 x 325 x 43mm 17.32 x 17.79 x 1.69in	3.68kg 8.11lb	3.76kg 8.31lb	Rack Mount	Metal, IP30	Yes

Standards

IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3u 100BASE-FX Fast Ethernet Fiber IEEE 802.3z Gigabit Fiber IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3bt Power over Ethernet Plus Plus IEEE 802.3x Flow Control and Back-pressure IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	IEEE 802.1p Class of Service (CoS) IEEE 802.1Q VLAN IEEE 802.1ad QinQ IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.3ad Link Aggregation Protocol (LACP) IEEE 802.1x Port Based Network Access Protocol IEEE 802.3az Energy Efficient Ethernet (EEE) ITU K.44 Overvoltages and Overcurrents Protection
---	---

Management

Protocols	IPv4, IPv6, ARP, ICMP, TCP, UDP, DNS, IGMP v1, v2, v3, MLD v1, v2, GMRP, GVRP, SNMP v1/v2c/v3, DHCP Client, NTP, SMTP, RMON, HTTP, HTTPS, Telnet, SSH v2, Syslog, EtherNet/IP, SNMP Inform, LLDP, NTP server/client, IEEE1588 PTPv2, Synchronous Ethernet G.8261, MIB-II, Ethernet- Like MIB, IEEE 802.1x Port Based Network Access Protocol, EAP, TACACS+, RADIUS, NAS, OpenDNP3 (IEEE-1815, DNP3), DLMS, RMON, MIB II, Port mirroring, DNS, IEEE802.1ab LLDP, LLDP-MED
Network Redundancy	ITU-T G.8032 Ethernet Ring (ERPS) <20ms IEEE 802.1D Spanning Tree (STP) IEEE 802.1D-2005 Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
IEEE 802.1x	EAP, TACACS+, RADIUS - authentication, authorization and accounting functions - AAA

Switch Properties

Switching Capacity	160Gbps
Forwarding	108-84Mpps
MAC Address Table	Up to 32K entries
VLANs	4096
QoS	8
Ambient Humidity	0% to 95% (non-condensing)
MTBF	451,000 hrs.

Compliance Specifications

EMC	IEC 61000-4-2 EC 611000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 IEC 61000-4-12 IEC 61000-4-29
Safety	EN 55032:2015-09 EN 55035:2017-09 EN IEC 62368-1:2020-11 EN 60825-1:2014-11 EMC 2014/30/EU LVD 2014/35/EU
Warranty	5 Years

America Headquarters

+1-714-671-9000
info@antaira.com | antaira.com

Asia Office

+886-2-2218-9733
info@antaira.com.tw | antaira.com.tw

Europe Office

+48 22 862 88 81
info@antaira.eu | antaira.eu

ORDERING INFORMATION

Industrial Ethernet Switch	
QMP-2820G-4Q16S-bt-T	28-Port Industrial Gigabit PoE++ Managed Ethernet Switch w/8*10/100/1000Tx RJ45 Ports (90W/Port), 16*100/1000Mbps SFP Slots + 4*100M/1G/2.5Gbps SFP Slots; EOT: -40°C to 85°C

© Antaira Technologies, LLC. All rights reserved. 202508
Specifications are subject to change without notice and without incurring any obligation.