

Data Sheet for Article: QLGE2681 -

L3 Lite Managed Switch 24x10/100/1000T, PoE+185W + 2xGE/SFP



SCHRACK-Info

The QLGE2681 - L3 Lite Managed PoE+ Switch is a next-generation Ethernet switch that offers a full range of Layer2 features, better PoE functionality, and improved ease of use. The switch includes advanced Layer3 features such as Static Route that provide greater cost efficiency and lower total cost of ownership in enterprise networks over fiber or copper links. The QLGE2681 - also offers 24 (10M/100M/1000Mbps) RJ45 PoE+ ports (supports 802.3at/af and up to 185W total), 2 combo Gigabit RJ45/SFP ports, and one RJ45 console port. In addition, the QLGE2681 - provides high HW performance and environmental flexibility for SMBs and enterprises, and is ideal for easy management, intuitive user experience, and lower power costs. The embedded device management system is designed to manage and monitor a network of IP phones, IP cameras, or Wifi APs for any scale of enterprise applications and greatly simplify deployment.

Key features

- 24 Gigabit-PoE-Ports and 2 Gigabit-RJ45/SFP-Combi connectors
- QoS- Control for traffic prioritization and bandwidth management
- DHCP-Client/Server
- Unterstützt IPv4/IPv6 Network operation
- Minimizes power consumption through advanced energy efficiency(IEEE-802.3az)
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- IP multicast filtering by IGMP Snooping V1 / V2 / V3
- Total-PoE-Budget: 185 W, up to 30 W per Port
- Integrated Device Management System (DMS) for management, diagnostics and monitoring of connected components and devices

Technical data

Standards:

- IEEE 802.3 10BASE-T, Ethernet
- IEEE 802.3u 100BASE-TX, Fast Ethernet
- IEEE 802.3ab 1000BASE-T, Gigabit Ethernet
- IEEE 802.3z 1000BASE-X, Gigabit Ethernet over fiber optic
- IEEE 802.1p Quality of Service (QoS)
- IEEE 802.1X Port-based Network Access Control (PNAC)
- IEEE 802.1Q Virtual LANs (VLANs)
- IEEE 802.1D MAC Bridges
- IEEE 802.1d Standard Spanning Tree Protocol
- IEEE 802.1s Multiple Spanning Tree (MSTP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.3x Flow Control
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3af Power over Ethernet (PoE)
- IEEE 802.3at Power over Ethernet Plus (PoE+)
- IEEE 802.3az Energy-Efficient Ethernet

Protocols:

Link Layer Discovery Protocol (LLDP)

Memory:

- RAM : 128 MB
- Flash : 32 MB
- Buffer memory: 512 KB

Sockets:

- 24 x 10/100/1000Mbps RJ45 PoE port
- 2 x Gigabit RJ45/SFP combe port
- 1 x RJ45 Console port

Button:

Mode / Reset Button

Indicator:

System, Link/Act/Speed, PoE

Transmission method:

Store-and-Forward

Power consumption:

100-240 VAC 50~60Hz

Energy consumption:

16.79W (without PoE)

Backplane (Gbps):

52Gbps

MAC-Adress table:

8K

Data rate:

10/100/1000Mbps

Energy efficiency:

- IEEE 802.3az Energy Efficient Ethernet
- Automatically turns power off on RJ-45 port when detecting link down or Idle of client
- Cable length detection: Adjusts the signal strength based on the cable length
- Reduces the power consumption for cables shorter

Heat dissipation:

full loading(PoE on): 807.58 BTU/hr

Temperature during operation(°C):

- Operating: 0°C ~ 45°C
- Storage: -20°C ~ 70°C

Humidity during operation:

- Storage: 10% ~ 90%
- Operating: 10 ~ 90%

Location:

19-inch rack-mountable

FUNCTIONS**General:**

- Device Management System (DMS)
- IGMP: IGMP v1/v2/v3 snooping, IGMP Queried, IGMP Proxy
- Virtual Local Area Network (VLAN):
- Port-based VLAN
- 802.1Q tag-based VLAN
- MAC-based VLAN
- Management VLAN
- Private VLAN Edge (PVE)
- Q-in-Q (double tag) VLAN
- Voice VLAN
- GARP VLAN Registration Protocol (GVRP)
- DHCP: DHCP Client

PoE-Function:

- Power Budget: Max. 185W
- Power Output: Up to 30W per port
- Protection: Circuit protection to prevent power interference between ports
- Management: PoE status, PoE on/off scheduling, PoE power delay, PoE live checking, Per port power priority setting, PD classification identity
- Pin Assignment: 1/2(+), 3/6(-)

Security:

- ACLs:L2/L3/L4
- ACLs:IPv6 Support
- Port Security (MAC-based)
- IP Source Guard

- Storm Control
- RADIUS Authentication 802.1x
- TACACS+ Authentication
- HTTPs and SSL (Secured Web)
- BPDU Guard
- STP Root Guard
- DHCP Snooping
- Loop Protection

Management:**Switch Management:**

- DHCP: Client, Relay, Option 66, Option 67, Option 82
- Event/Error Log: Syslog, SMTP (RFC821)
- Management Access Filtering: SNMP, Web, Telnet, SSH
- PoE Management: Scheduling, Auto-Checking, Power Delay SNMP (v1, v2c, v3)
- RMON (1,2,3 & 9 Groups)
- Software Upgrade
- Configuration Export/Import
- Port Mirroring
- LLDP (IEEE802.1AB)
- LLDP-MED (IEEE802.1AB)
- CDP Aware
- sFlow
- IPv6 Management
- NTP
- MAC Flooding
- Native IPv6
- IPv6 Dual stack
- CLI

L3-Functions:

- Static Route
- DHCP Server

Ease of use:

Firmware and Configuration: Upgrade via HTTP

Power**Forwarding rate:**

38.68 Mpps

Jumbo-Frames:

9.216K

Switching capacity:

52Gbps

Dimensions (W x D x H):

442 x 211 x 44 mm

Weight:

3300g

Technical Data

Net width (mm)	442,00
Net height (mm)	44,00
Netto depth (mm)	211,00
EAN	4015867198964
Min. ambient temperature (°C)	0
Max. ambient temperature (°C)	45
Product	Ethernet Switch
Speed	10/100/1000Mbps
Ports	26
Mounting	19"

Article Table

DESCRIPTION	Order No.
L3 Lite Managed Switch 24x10/100/1000T, PoE+185W + 2xGE/SFP	QLGEP2681
Optional Accessories	
FO-Module SFP 1000BaseSX LC Multimode VCSEL 850nm, 550m for devices of the QL ... Series	QLSFP3001
FO-Module SFP 1000BaseLX LC Singlemode 1310nm, 20km for devices of the QL ... Series	QLSFP3211
Patchcord RJ45 shielded Cat.6a 10GB, LS0H, grey, 0.5m 4PPoE 100W, PREMIUM	H6GTG00K5G
Patchcord RJ45 shielded Cat.6a 10GB, LS0H, grey, 1.0m 4PPoE 100W, PREMIUM	H6GTG01K0G
Patchcord RJ45 shielded Cat.6a 10GB, LS0H, grey, 2.0m 4PPoE 100W, PREMIUM	H6GTG02K0G
19" Cable management panel, 5 big rings 40x83mm, 1U, RAL7035	DBK14805