Model: UT-63448GC-48GT-4XGP-POE

10G Layer 3 Managed POE Ethernet Switch

Datasheet

Overview

UT-63448GC-48GT-4XGP-POE is a high-performance, cost-effective managed 10G Layer 3 POE Ethernet switch. It provides 48 Gigabit POE ports, 4 10G SFP+ ports; this not only increasing the bandwidth, but also improving network data communication, it is suitable for large-scale industrial network applications.
The switch supports a variety of Layer 2 features (port mirroring, VLAN, port aggregation, IGMP Snooping, QoS, STP/RSTP/MSTP, etc.) and basic Layer 3 routing protocols (static routing/RIP/OSPF/VRRP), which providing users with a complete solution to build large scale networking for industrial automation, intelligent transportation, video surveillance, etc.

Feature

- 48 Gigabit POE ports + 4 10Gbps SFP+ ports
- 10Gbps SFP+ ports, support 10Gigabit/Gigabit
- PIM-SM, IGMP Snooping filter multicast packets
- IEEE 802.1Q VLAN, convenient for network design
- QoS with 8 queue mapping to increase network stability
- Ring, ERPS, STP/RSTP/MSTP network redundancy, broadcast storm protection
- SNMPv1/v2v3 to ensure network security management
- Link aggregation (static convergence/LACP) to optimize network bandwidth
- ACL IPV4/IPV6 to enhance flexibility and network management security
- Port mirroring, convenient for online debugging
- Port speed limit\broadcast storm suppression\multicast storm suppression\unknown unicast storm suppression
- RMON for high efficiency on network monitoring
- Supports loop circuit detection
- Supports log management
- Layer 3 switching function (static routing/RIP/OSPF/VRRP)
- Power supply, port abnormal status alarm function
- Operating temperature: -40~75°C
- IP40 protection, fan-less, rackmount design

Specification

Protocol Standard

Standard: IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z, IEEE802.3ab, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W, IEEE802.1s, IEEE802.3ad, IEEE802.1x, IEEE802.3ae, IEEE802.2af/at
Protocol: ARP, ICMP, TCP, HTTP/HTTPS, Telnet, STP/RSTP/MSTP, LLDP, IGMP-Snooping, SNMPv1/v2c/v3, DHCP Server, NTP, LACP, VLAN, Ring, ERPS, SSH, RMON, UDLD
Layer 3 switching technologies: static routing, RIP V1/V2, OSPF, VRRP, PIM-SM router redundancy
Flow control: IEEE802.3x, backpressure flow control

Interface

Fiber port: 1Gbps SFP/10Gbps SFP+

RJ-45 port: 10/100/1000Base-T, auto-MDI/MDI-X

Console port: serial port debugging (RJ45 port)

LED indicator

power indicator, network indicator, alarm indicator, running indicator, POE indicator

Transmission Distance

Cat.5e: 100m

Optical module

Single-mode: 1,310nm 20/40Km

1,550nm 60/80/100/120Km

Multi-mode: 1,310nm 2Km

Switch property

100M forwarding rate: 148,810pps

1000M forwarding rate: 1,488,095pps

10G forwarding rate: 14,881,000pps

Transmission mode: store and forward

MAC address size: 32K

Cache size: 16Mb

Switching bandwidth: 216G

Max. frame length: 12KB

Host unicast routing: 12K (IPv4)/4K (IPv6)

Segment unicast routing: 12K (IPv4/IPv6)

Power requirement

Input voltage: 220VAC(88-264VAC)/50-60Hz or 220VDC(180-360VDC)

Power consumption

Single POE port up to 30W

total POE power consumption:

Not exceed to 690W (55°C);

Not exceed to 520W (65°C);

Not exceed to 490W (75°C);

Without POE: Max. 50W

Mechanical characteristic

IP Rating: IP40

Weight: <7kg

Installation: Rack mounting

Device size (W x H x D): 440mm x 44mm x 300mm

Operating environment

Operating temperature: -40 ~ 75°C

Storage temperature: -40 ~ 85°C

Relative humidity: 5~95% (non-condensing)

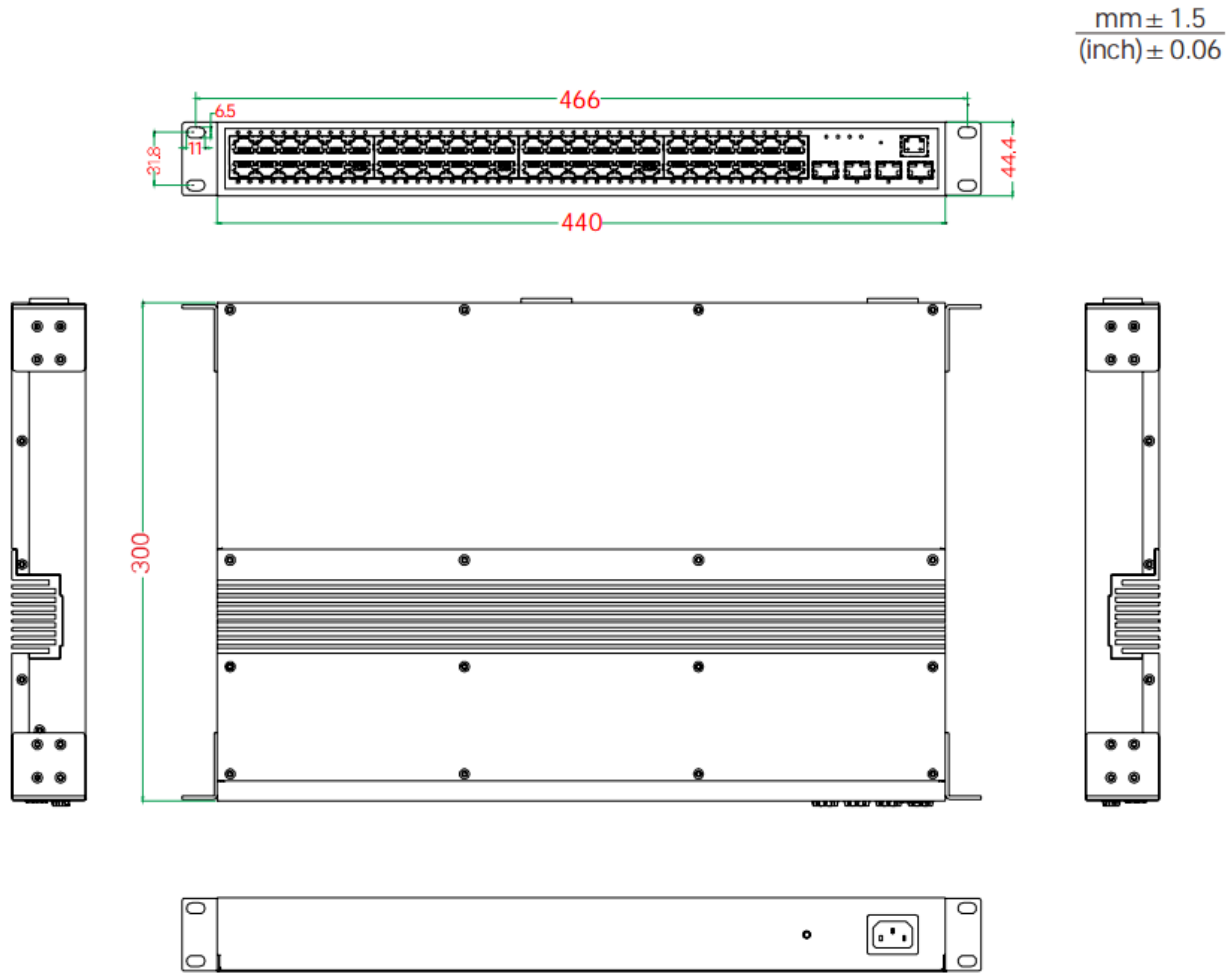
Industrial standard

EMI: FCC Part 15, CISPR (EN55022) class A

EMS:

IEC(EN)61000-4-2(ESD)
IEC(EN)61000-4-3(RS)
IEC(EN)61000-4-4(EFT)
IEC(EN)61000-4-5(Surge)
IEC(EN)61000-4-6(CS)
IEC(EN)61000-4-8
IEC 60068-2-27(Shock)
IEC 60068-2-32(Freefall)

Dimension



Ordering

Model	Interface		Fiber port type
	10/100/1000Base-T	10GBase-R(SFP+)	10GBase-R(SFP+)
UT-63448GC-48GT-4XGP-POE	48	4	SFP slot

Instruction for using the 240/4 is in Chapter 6.3 of WEB management.(Page 76-77):
https://www.uotek.com/Uploads/file/20250930/20250930161110_90660.pdf