Model: UT-63408GC-8GT-4XGP

(Product Name: 8G+4XG 10 Gigabit Layer 3 Managed Ethernet Switch)

Datasheet

Overview

The UT-63408GC-8GT-4XGP series is a managed 10 Gigabit Ethernet Layer 3 switch. It provides 8 Gigabit Ethernet ports + 4 10Gbps SFP+ interfaces, not only increasing bandwidth and enhancing network data communication but also making it highly suitable for large-scale industrial network applications.

This product supports multiple Layer 2 software features (port mirroring, VLAN, port aggregation, IGMP snooping, QoS, STP/RSTP/MSTP, etc.) and fundamental Layer 3 routing protocols for IPv4/IPv6 (static routing/RIP/OSPF/VRRP), providing users with a comprehensive solution. It offers more options for building large-scale local area networks in industrial application fields such as factory automation, intelligent transportation, and video surveillance.

Feature

- Supports 8 Gigabit Ethernet ports + 4 10Gbps SFP+ interfaces
- 10GBase-R SFP interfaces support web-configurable 1000Base-X or 10GBase-R mode selection
- Supports PIM-SM and IGMP Snooping for multicast packet filtering
- Supports IEEE 802.1Q VLANs for simplified network planning
- Supports 8 QoS-enabled queues to enhance network stability
- Supports Ring, ERPS, STP/RSTP/MSTP network redundancy to prevent broadcast storms
- Supports SNMPv1/v2c/v3 for secure network management
- Supports link aggregation (static aggregation/LACP) to optimize network bandwidth
- Supports access control lists (ACL IPV4/IPV6) for enhanced flexibility and network management security
- Supports port mirroring for convenient online debugging
- Supports port rate limiting, broadcast storm suppression, multicast storm suppression, and unknown unicast storm suppression to ensure network stability
- Supports RMON for efficient and flexible network monitoring
- Supports VLANs to simplify network planning
- Supports loop detection to effectively eliminate impacts from port loops
- Supports SFP DDM for fiber diagnostics and troubleshooting
- Supports log management
- Supports Layer 3 switching functions (static routing/RIP/OSPF/VRRP)
- Supports power and port status indicator alarms
- Supports wide temperature operation: -40° C to 75° C

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

Protocol: ARP、ICMP、TCP、HTTP/HTTPS 、Telnet、STP/RSTP/MSTP、LLDP、IGMP-Snooping、SNMPv1/v2c/v3，DHCP Server、NTP、SSH、IPV6、LACP、VLAN、ERPS、RMON、UDLD

Layer 3 Switching Technology: Static Routing, RIP V1/V2, OSPF, VRRP, PIM-SM, Supports Router Redundancy

Flow Control: IEEE 802.3x Flow Control, Backpressure Flow Control

Ports

Fiber Optic Port: 10GBase-R SFP+ port

RJ45 Port: 10/100/1000Base-T port, MDI/MDI-X auto-sensing

LED Indicators

Power Indicator, Alarm Indicator, Operation Indicator

Transmission Distance

Category 5e Twisted Pair Cable: 100m

Fiber Optic Module

Single-mode: 1310nm 20/40Km

1550nm 60/80/100/120Km

Multimode: 1310nm 2Km

Switching Performance

100Mbps Forwarding Rate: 148,810 pps

1Gbps Forwarding Rate: 1,488,095 pps

10 Gigabit forwarding rate: 14,881,000 pps

Transmission mode: Store-and-forward

MAC address space: 16K

Cache space: 12Mb

Backplane bandwidth: 96G

Maximum Frame Length: 12KB

Host Routing Table: 6K (IPv4), 2K (IPv6)

Subnet Routing Table: 512 (IPv4), 128 (IPv6)

Power Requirements

Input Voltage: 12/24/48VDC (10.8~52.8VDC), with reverse polarity protection

Power Consumption

Maximum Input Power Consumption: 650mA@24Vmax (Refer to the product label for detailed power consumption specifications)

Mechanical Specifications

Enclosure: IP40 protection rating

Mounting Method: DIN rail mounting

Weight: 1.3 kg

Dimensions (W x H x D): 150mm x 64mm x 120mm

Packaging Dimensions: 250mm x 205mm x 108mm

Operating Environment

Operating Temperature: -40°C to 75°C

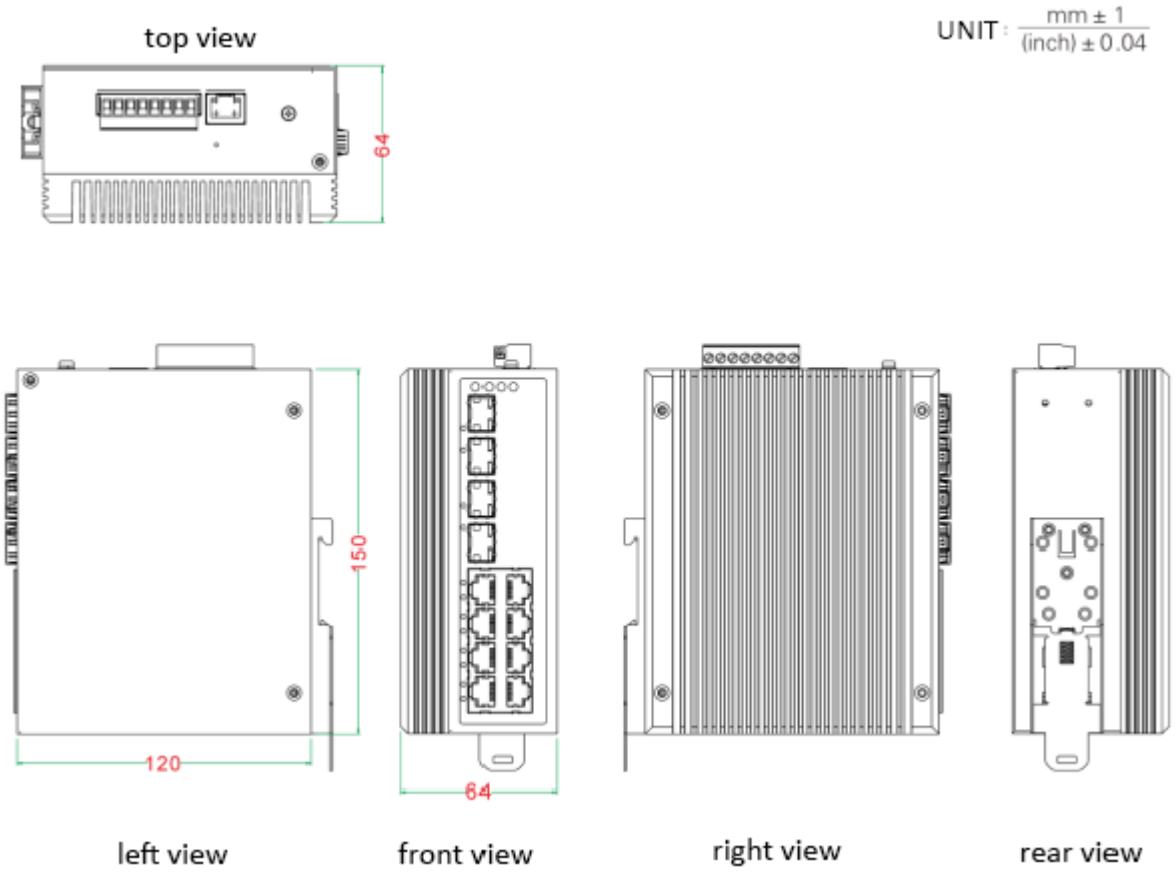
Storage Temperature: -40°C to 85°C

Relative Humidity: 5% to 95% (non-condensing)

Standards

EMI：FCC Part 15 Subpart B classA，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)
IEC 60068-2-6(Vibration)

Dimension



Product Model	Ports Description		Optical Port Types
	10GBase-R(SFP+)	10/100/1000Base-T	1000Base-X/10GBase-R(SFP+)
UT-63408GC-8GT-4XGP-RNF	4	8	SFP slot
UT-63408GC-8GT-4XGP-RND	4	8	SC Optical Port

Note:

The suffix “RNF” in the product designation indicates a single power supply input of 12/24/48 VDC (10.8~52.8 VDC); If the suffix is “RND”, the “D” denotes a dual power supply input of 110/220 VAC/DC (88~264 VAC/DC).

Instruction for using the 240/4 is in Chapter 6.3 of WEB management.(Page 76-77):
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