

Model: UT-6410GCM POE

(Product Name: 10-port managed gigabit POE ethernet switch)

Datasheet



UTEK TECHNOLOGY (SHENZHEN) CO., LTD.

Add: Room 1001, Building 7, Skyworth Innovation Valley, No. 8, Tangtou No.1 Road,
Shiyan Old Street, Bao'an District, Shenzhen

Tel: +86-755-81202008

Fax: +86-755-27886083

Http: www.uotek.com

1. Overview

UT-6410GCM POE series managed gigabit industrial Ethernet switch supports 8 ports of 10/100/1000Base-T Ethernet (compatible with IEEE802.3af/at POE) and 2 ports of 1000Base-X fiber optic. Each POE port can provide up to 30W of power to connected devices such as surveillance cameras, wireless access points, and IP phones when AC power is not convenient or limited by other factors.

The UT-6410GCM POE series Ethernet switch has high flexibility and supports multiple management functions (CLI/Web, etc.). It can expand the backbone network structure and Ethernet power supply, and has high anti-electromagnetic interference ability, ensuring stable operation in harsh industrial environments, and playing a greater role in industrial automation, intelligent transportation, video surveillance, and other industrial applications.

2. Major Functions & Features

- Supports 8-channel POE management functions
- Supports various combinations of fast Ethernet ports and optical ports (with ST/FC/SC/SFP interface types)
- Supports Web optional 100Base-FX, 1000Base-X mode type configuration
- Supports IGMP Snooping to filter multicast packets
- Supports IEEE 802.1Q VLAN for easy network planning
- Supports QoS for real-time traffic classification and priority
- Supports STP/RSTP/MSTP and ERPS network redundancy functions to prevent network storms
- Supports UT-Ring private loop network function
- Supports SNMPv1/v2/v3 for network management at different levels
- Supports traps and RMON for flexible network monitoring
- Supports IEEE802.1x authentication function
- Supports link aggregation to optimize network bandwidth
- Supports port isolation and ACL to enhance network management flexibility and security
- Supports port mirroring function for online debugging
- Supports DHCP Server for assigning IP addresses with different policies
- Supports port rate limiting, broadcast storm suppression, multicast storm suppression, and unknown unicast storm suppression to ensure network stability
- Supports LLDP, Link flap, UDLD, DDM, and loop detection related link detection functions for site construction problem troubleshooting
- Supports power and port abnormal status relay output alarm function
- Supports wide temperature range operation, working temperature range is: -40-70°C

3. Technical parameters

Protocol Standards

Standards: IEEE 802.3af/at, IEEE802.3, IEEE802.3u, IEEE802.3x,
IEEE802.3z, IEEE802.1Q, IEEE802.1p, IEEE802.1D,
IEEE802.1W, IEEE802.1s, IEEE802.3ad, IEEE802.1x

Protocols: ARP, ICMP, TCP, HTTP, HTTPS, Telnet, STP/RSTP/MSTP,
LLDP, IGMP, SNMPv1/v2c/v3, DHCP Server, ERPS, UDLD,
NTP, RMON, Syslog

Flow Control: IEEE802.3x flow control, Backpressure flow control

Interfaces

Optical Interface: 100Base-FX/1000Base-X ports (SC/FC/ST/SFP slots)

RJ45 Interface: 10/100/1000Base-T port, MDI/MDI-X adaptive

POE Pins: V+, V+, V-, V- corresponding to pins 1, 2, 3, 6 (default)

LED Indicators:

Power indicator, optical port indicator, RJ45 indicator, alarm indicator, operation indicator, POE indicator

Transmission Distance

Cat5e twisted pair cable: 100m

Fiber optic jumper:

Single-mode: 1310nm 20/40/60Km, 1550nm 80/100/120Km

Multi-mode: 1310nm 2Km

Switching Performance

Forwarding rate: 1488095pps

Transmission mode: Store and forward

MAC address space: 8K

Buffer space: 4.1Mb

Backplane bandwidth: 22G

Maximum frame length: 10KB

Power Requirements

Input voltage: 48VDC (46-57V), redundant input, reverse protection supported

Interface terminal: one pluggable 6-pin terminal block

Power consumption:

Single POE network interface up to 30W, total power consumption not exceeding 120W

Mechanical Characteristics

Housing: IP40 protection level

Installation method: DIN-rail or wall-mount installation

Size (W x H x D): 150mm x 47.6mm x 100mm

Packaging size: 250mm x 205mm x 55mm

Weight: 881g

Operating Environment

Operating temperature: -20° C ~75° C

Storage temperature: -40° C ~85° C

Relative humidity: 0~95% (non-condensing)

Industry Standards

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,

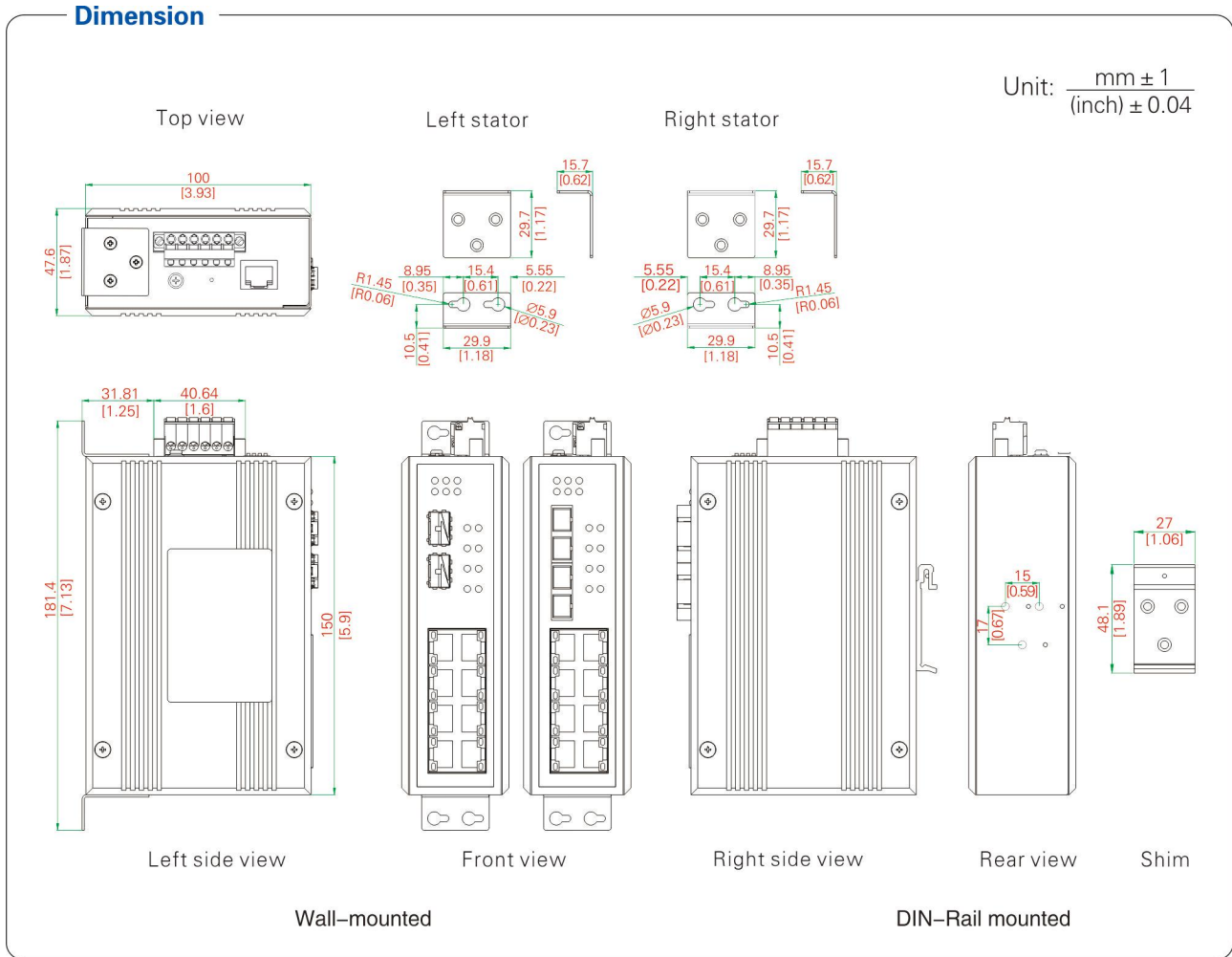
IEC 60068-2-27(Shock),

IEC 60068-2-32(Freefall)

4. Appearance



5. Structure dimensions



6. Orderings

Model	Interface description		Optical port type
	1000Base-X	10/100/1000Base-T	
UT-6410GCM-8GT2GP-POE	2	8	SFP slot
UT-6410GCM-8GT2GSC-POE	2	8	SC optical port
UT-6410GCM-8GT-POE	-	8	-

Note:

1. The fiber optic port type of the above products is default to single mode dual fiber SC interface/SFP slot, and ST/FC interface is also available. For more configurations, please contact the sales department.