Model: MTL-6405GCA

(Product Name: Non-managed Gigabit Ethernet Switch)

User Manual

1.Overview

MTL-6405GCA is a 5-port non-managed Gigabit Ethernet switch that provides 5 1000Base-T Ethernet ports. This product supports -20~70℃ operation and has good EMC electromagnetic compatibility performance. It also supports industrial standard DIN-rail and wall-mount installation to ensure normal operation in harsh environments, so it is easy to install and can be applied to any industrial network.

2. Major Functions & Features

- Reliable data transmission with long service life.
- Supports full-duplex or half-duplex mode, and has automatic negotiation capability.
- 10/100/1000Mbps auto-adaptation
- Ethernet ports support automatic crossover recognition, no need for manual switch operation
- Plug and play for easy use
- Wide voltage input: 12/24/48VDC (10.8~52.8VDC), with reverse connection protection
- Operating temperature: -20℃ to 70℃

3. Hardware specification

- **Standards**
  IEEE 802.3 10Base-T
  IEEE 802.3u 100Base-TX
  IEEE 802.3ab 1000Base-T
- **Interfaces**
  Ethernet interface: 5 Gigabit RJ-45 ports, supporting 10/100/1000Base-T
  LED indicators: PWR power indicator, RJ-45 indicator
- **Switching Performance**
  Forwarding rate: 1488095pps
  Transmission mode: Store-and-forward
  MAC address space: 2K
  Buffer space: 1Mb
  Backplane bandwidth: 10G
  Maximum frame length: 16KB
- **Power Requirements**
  Input voltage: 12/24/48VDC (10.8~52.8VDC), redundant dual power input
  Power consumption: 120mA@24Vmax
  Interface terminal: 1 pluggable 6-pin terminal block
  Overload protection: provided
  Reverse connection protection: provided
- **Mechanical Characteristics**
  Housing: IP40 protection level
  Installation method: DIN-rail mounting\Wall-mounting
  Dimensions (W x H x D): 100mmx80mmx28mm
- **Packaging dimensions**: 250mmx205mmx55mm

- **Operating Environment**

  Operating temperature: -20℃ to 70℃

  Storage temperature: -40℃ to 85℃

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

- **Industry 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)

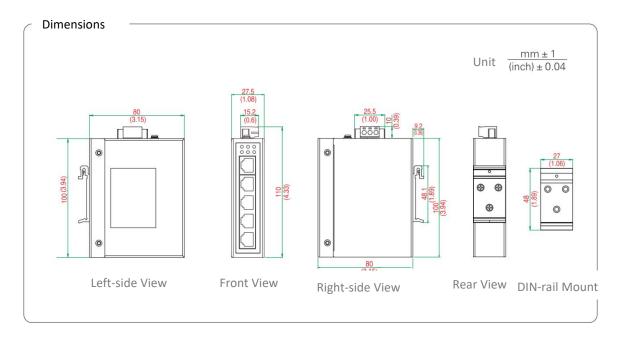 IEC 60068-2-32(Freefall)

  IEC 60068-2-6(Vibration)

4.Appearance

5.Structure dimensions

Dimensions

Unit $\frac{mm \pm 1}{(inch) \pm 0.04}$

80 (3.15)

100(3.94)

27.5 (1.08)

15.2 (0.6)

110 (4.33)

25.5 (1.00)

10 (0.39)

9.2 (0.36)

48.1 (1.89)

100 (3.94)

80 (3.15)

27 (1.06)

48 (1.89)

Left-side View   Front View   Right-side View   Rear View   DIN-rail Mount