GMTCNT

G—6405S
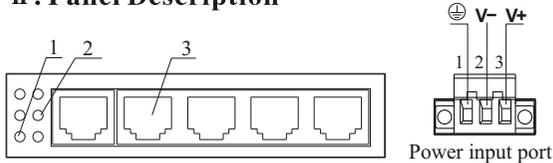# 5—Port 100M Unmanaged Ethernet Switch
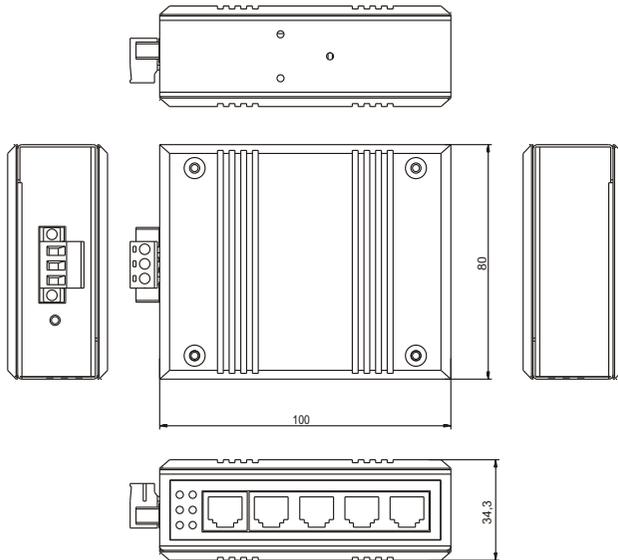# User Manual

Ⅰ. Overview

G-6405S is a 5-port 100M unmanaged Ethernet switch; it provides DC input reverse polarity protection; it supports industrial standard DIN-Rail installation. G-6405S is very easy to be installed at any industrial network.

Ⅱ. Panel Description

Power input port

1. Power indicator
2. Network port indicator
3. Network port

Dimension(unit: mm)

Ⅲ. Hardware Specification

3.1 Standards
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX
3.2 Ports
RJ-45 ports: 5x 10/100Base-TX ports, auto detection, auto MDI/MDI-X
LED indicator：PWR, RJ-45 port1~5
3.3 Power Requirement
Voltage input: 12/24/48VDC(10.8~52.8VDC)
Power consumption: 50mA@24Vmax
Terminal block: 1x3-pin, pluggable
Overload protection: Yes
Reverse polarity protection: Yes
3.4 Switching Performance
Forwarding rate:148810pps
Transmission mode: store-and-forward
MAC address size:2K
Buffer size: 768Kb
Switching bandwidth : 1G
3.5 Mechanical Characteristics
IP rating: IP40
Installation: DIN-Rail
Size（W x H x D）：100mm × 80mm × 34.5mm
3.6 Industrial Standards
EMI：FCC Part 15 Subpart B class A，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)
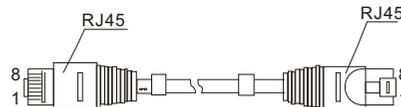IEC(EN)61000-4-6(CS)
IEC(EN)61000-4-8
IEC 60068-2-27(Shock)
IEC 60068-2-32(Freefall)
IEC 60068-2-6(Vibration)
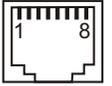
Ⅳ. Port definition

4.1 10/100Base-T(X) Ethernet port
This switch 10/100Base-T(X) ports support auto MDI/MDI-X. User can build the connection between RJ45 port of switch and other Ethernet terminal devices via cable (direct or cross connection). RJ45 pin assignment is as below.

RJ45 ports support auto MDI/MDI-X, it can be connected with PCs, servers other switches or hubs by MDI. When use MDI connection, relative pin 1, 2, 3, 6 to be connected directly. For MDI-X port of switch or hub, it adopts cross connection:1->3, 2->6, 3->1,6->2. 10/100Base-T(X) MDI/MDI-X pin assignment is as below:

Pin No.	MDI Signal	MDI-X Signal
1	TX+	RX+
2	TX-	RX-
3	RX+	TX+
6	RX-	TX-
4, 5, 7, 8	-	-

Ⅴ. LED indicator

LED	Status	Description
PWR	Green light on	Power normal
	Green light off	Power failure or without power
1~5 Network light	Green light on	Establish 100M transmission rate link
	Green light blinking	The link communicates at 100M transmission rate
	Green light off	No link connection or breakdown

Ⅵ. Installation

6.1 Attention
To avoid device damage causing by wrong operation and personal injury, please follow below steps:
Install the switch on guide rail, and then follow below steps:
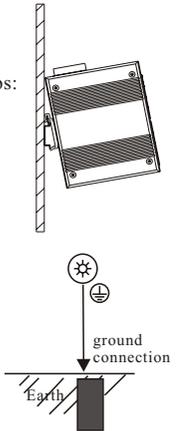Step 1: Check the rail stability; put the switch rail slot into the guide rail;
Step 2: rotate the fix screw of the rail from center to both sides in turn tightly, to make the guide rail plying-up the vertical install cover slightly.
6.2 Ground connection
Fix the ground wire on the ground screw of the switch, make sure good connection.
6.3 Power input
Plug the power wire into the right position of 3-pin terminal block, then plug the terminal block into standard power input port (power is V+, V-input, supports V+, V- power voltage range 12/24/48VDC(10.8~52.8VDC))

ground connection

Earth

Ⅶ. Packing list

Item	Qty(pcs)
Switch	1PCS
User manual	1PCS