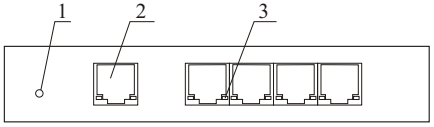
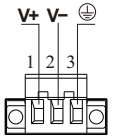
UT–6405W
5–Port 100M Unmanaged Ethernet Switch
User Manual

Ⅰ. Overview

UT-6405W is a 5-port 100M unmanaged Ethernet switch; it provides 5 100Base-TX Ethernet ports. This product provides DC input reverse polarity protection; it supports -40~85℃ working temperature, with good EMC performance. It supports industrial standard DIN-Rail & wall-mounted installation. UT-6405W can be worked in the harsh environment, so it is very easy to be installed at any industrial network.

Ⅱ. Panel Description

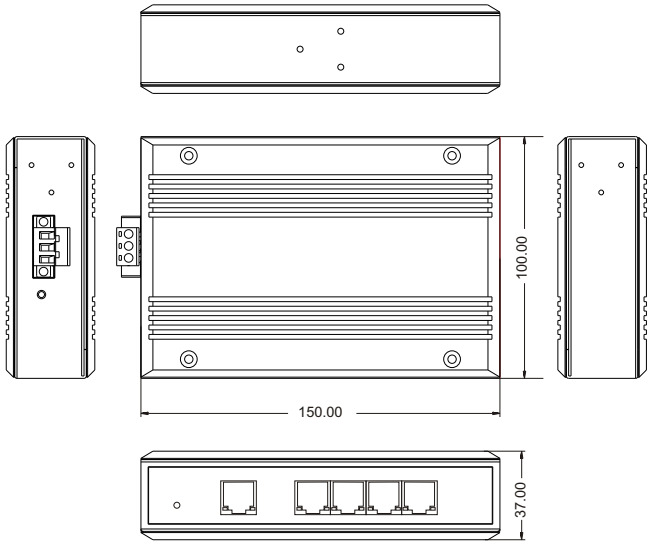




Power input port

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

Dimension(unit: mm)

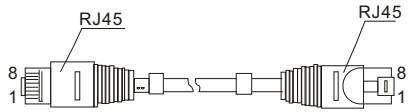


Ⅲ. Hardware Specification

3.1 Standards
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX
IEEE 802.3x
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: 100mA@24Vmax
Terminal block: 1x3-pin, pluggable
Overload protection: Yes
Reverse polarity protection: Yes
Switching Performance
Forwarding rate:148810pps
Transmission mode: store-and-forward
MAC address size:1K
Buffer size: 0.5Mbit
Switching bandwidth : 1.2G
3.4 Mechanical Characteristics
IP rating: IP40
Installation: DIN-Rail/wall-mounted
3.5 Dimension
37mm × 150mm × 100mm
3.6 Environment
Operating temperature: -40℃~85℃
Storage temperature: -40℃~85℃
Relative humidity: 0~95% (non-condensing)
3.7 Industrial 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)

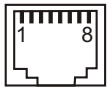
Ⅳ. Port definition

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
PWR1 PWR2	Green light on	Power normal
	Green light off	Power failure or without power
RJ-45 indicator	RJ45 Green light on, yellow light blinking	100M transmission rate
	RJ45 yellow light on, green light off	10M transmission rate or connection failure
	RJ45 yellow light & Act/Link blinking	10/100M normal link connection
	RJ45 yellow light off	No link connection or breakdown

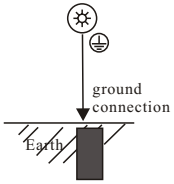
Ⅵ. Installation

6.1 Attention
To avoid device damage causing by wrong operation and personal injury, please follow below steps:
◎To avoid device damage by falling down, please put the device on stable surface.
◎ When the device is ready to power on, please make sure the voltage input is wide voltage range, and the positive/negative anodes of the power.
◎ To avoid the electric shock, make sure the device is in good ground connection when operating.
◎ Please do not open the device case at any time.
◎ Please keep away from dusty and strong electromagnetism interference environment.

6.2 DIN-Rail installation
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.
Step 3: Fix the rail on the guide rail by screw, make sure the rail and the switch is vertical and stable.
6.3 Wall-mounted Installation Please follow below steps:

Step 1: Check the ground connection and stability of the wall-mounted position; fix the hanger to the switch;
Step 2: paste the switch to the wall-mounted position, move it to make the screw hole together with switch hanger;
Step 3: fix the hanger at the wall-mounted position by screw, make sure the switch is fixed to the wall-mounted position.

6.4 Ground connection
Fix the ground wire on the ground screw of the switch, make sure good connection.



6.5 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))

Ⅶ. Packing list

Item	Qty(pcs)
Switch	1PCS
User manual	1PCS
Screw	6PCS
Fixing slice	2PCS
Warranty card	1PCS
Certificate of approval	1PCS