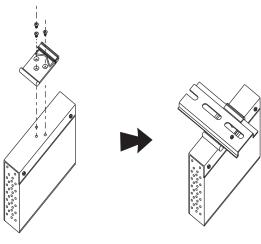
IGS-150B

Industrial Unmanaged Gigabit Switch

Installation

DIN-rail Installation

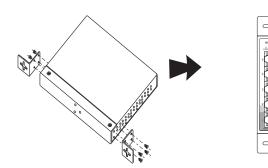
Step 1: Slant the switch and screw the Din-rail kit onto the back of the switch, right in the middle of the back panel. Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch clicks into the rail firmly.



Wall-mounting

Step 1: Screw the two pieces of wall-mount kits onto both sides of the switch. A total of eight screws are required, as shown below. Step 2: Use the switch, with wall mount plates attached, as a guide to mark the correct locations of the four screws.

Step 3: Insert four screw heads through the large parts of the keyhole-shaped apertures, and then slide the switch downwards. Tighten the four screws for added stability.



Introduction The IGS-150B is a mini type unmanaged gigabit Ethernet switch with five

10/100/1000Base-T(X) ports. Featuring an IP-30 housing, the switch offers a wide operating temperature from -40°C to 70°C.

Package Contents

The IGS-150B series are shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

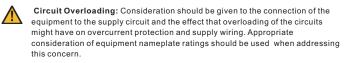
Contents	Pictures	Number
IGS-150B		X 1
DIN-rail Kit		X 1
Wall-mount Kit	E.	X 2
QIG		X 1

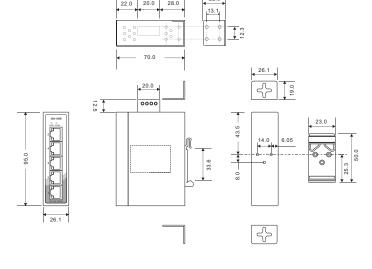
Preparation

Before you begin installing the switch, make sure you have all of the package contents available.

Safety & Warnings

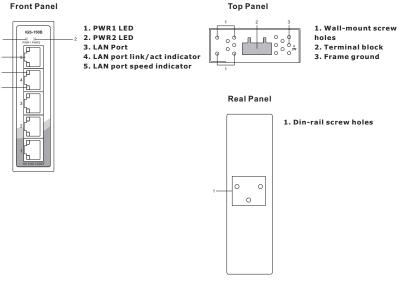
Elevated Operating Ambient: If installed in a closed cabinet, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer. Reduced Air Flow: Installation of the equipment should be such that the amount of air flow required for safe operation of the equipment is not compromised Mechanical Loading: Mounting of the equipment in the din-rail should be such that a hazardous condition is not achieved due to uneven mechanical loading.







Dimension (Unit: mm)



▼ GIGABIT

SWITCH

Network Connection

The IGS-150B has standard gigabit Ethernet ports. According to the link type, the switch uses CAT 3, 4, 5, 5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

Cable Types and Specifications:

Cable	Туре	Max. Length	Connector
10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45
1000BASE-T	Cat. 5 / Cat. 5e 100-ohm UTP	UTP 100 m (328 ft)	RJ-45

For pin assignments for different types of cables, please refer to the following tables.

10/100Ba	10/100Base-T(X) RJ-45 1000 Base-T RJ-45		1	10/100Base-T(X) MDI/MDI-X			1000Base-T MDI/MDI-X				
Pin Number	Assignment		Pin Number	Assignment		Pin Number	MDI port	MDI-X port	Pin Number	MDI port	MDI-X po
1	TD+		1	BI_DA+	1	1	TD+(transmit)	RD+(receive)	1	BI_DA+	BI_DB+
2	TD-		2	BI_DA-	1	2	TD-(transmit)	RD-(receive)	2	BI_DA-	BI_DB-
3	RD+		3	BI_DB+	1	3	RD+(receive)	TD+(transmit)	3	BI_DB+	BI_DA+
4	Not used		4	BI_DC+	1	4	Not used	Not used	4	BI_DC+	BI_DD+
5	Not used		5	BI_DC-	1	5	Not used	Not used	5	BI_DC-	BI_DD-
6	RD-		6	BI_DB-		6	RD-(receive)	TD-(transmit)	6	BI_DB-	BI_DA-
7	Not used		7	BI_DD+		7	Not used	Not used	7	BI_DD+	BI_DC+
8	Not used		8	BI_DD-	1	8	Not used	Not used	8	BI_DD-	BI_DC-

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

Wiring

The switch supports dual redundant power supplies which are located on the 4-pin terminal block.

STEP 1: Insert the negative/positive wires into the V-/V+ terminals, respectively.

STEP 2: To keep the DC wires from pulling loose, use a small flat-blade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector.

Configurations

After installing the IGS-150B and connecting cables, start the switch by turning on power. The green power and LEDs should turn on.

LED indication table

LED	Color	Status Description			
PW1	Green	On DC power module 1 activat			
PW2	Green On DC power module 2 activ				
LNK/ACT	Green	On	Port is linked		
	Green	Blinking	Transmitting data		
	Green	On	Port link at 1000Mbps		
Speed	Amber	On	Port link at 100Mbps		
	Off		Port link at 10Mbps		

IGS-150B

Specifications

ORing Switch Model	IGS-150B
Physical Ports	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	5
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control
MAC Table	4096 MAC addresses
Processing	Store-and-Forward
LED Indicators	
Power indicator	Green: Power LED x2
10/100/1000Base-T(X) RJ45 port indicator	Up Green LED for Link/Act indicator Down dual color LED for speed indicator : Green : 1000Mbps Amber : 100Mbps Off : 10Mbps
Power	
Input power	Dual 12~48 VDC power inputs at 4-pin terminal block
Power consumption(Typ.)	3.2 Watts Max.
Overload current protection	Present
Reverse polarity protection	Present
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	26.1(W) x 70(D) x 95(H)mm (1.03x 2.76 x 3.74inch.)
Weight (g)	222 g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1

*Equipment intended for installation in Restricted Access Location



Industrial Unmanaged Gigabit Switch

QIG IGS-150B