

# Quick Installation Guide

## SPL-101GT++ Series Industrial Gigabit Splitter

### Introduction





The **SPL-101GT++ series** is a high power PoE+ splitter fully compliant with IEEE802.3af/at standard. With one Ethernet input (data + power) port and output (data only) port, the **SPL-101GT++** can split power from a LAN cable and convert the power up to 24VDC/2.5A for power hungry applications such as wireless APs, security cameras and IP phones. A 12V model is also available. Internal current limit, short-circuit and overload protection is supported to ensure power supply security.

### Features

- > Fully compliant with IEEE802.3af/at standard
- > Supports 10/100/1000Base-T(X) for PoE In and Data Out
- > Support PoE P.D input up to 90Watts
- > Power Isolation and Short Circuit Protection for Power Output
- > Auto protection for Over Voltage Power Input
- > Supports Power Output up to 60Watts/12VDC or 24VDC
- > High reliability and rigid IP-30 housing
- > DIN-Rail and wall mounting enabled

### Package Contents



The device is 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
SPL-101GT++-24V SPL-101GT++-12V		X 1
QIG		X 1
DIN-rail kit		X 1
Wall-Mount Kit		X 2

### Preparation

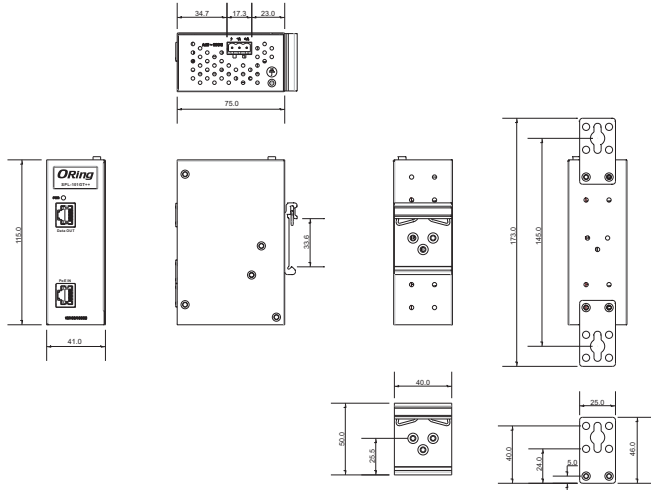
Before installation, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

#### Safety & Warnings

-  **Elevated Operating Ambient:** If installed in a closed environment, make sure the operating ambient temperature is compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
-  **Reduced Air Flow:** Make sure the amount of air flow required for safe operation of the equipment is not compromised during installation.

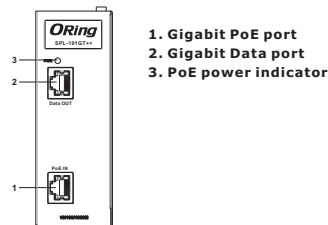
-  **Mechanical Loading:** Make sure the mounting of the equipment is not in a hazardous condition due to uneven mechanical loading.
-  **Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

#### Dimension

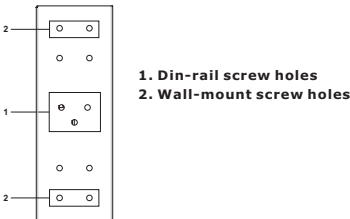


#### Panel Layouts

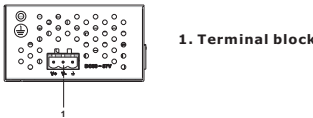
##### Front Panel



##### Rear Panel



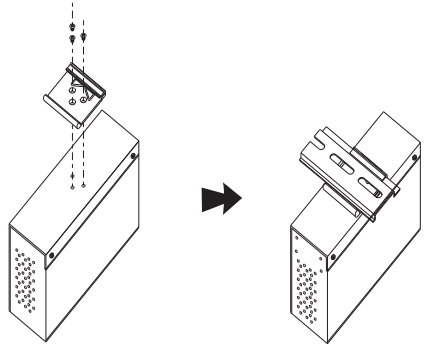
##### Top Panel



### Installation

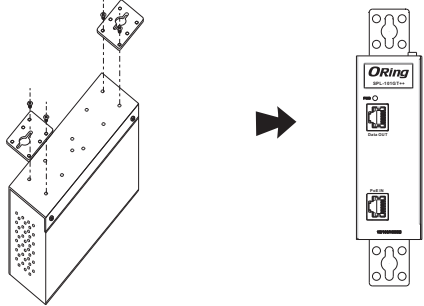
#### DIN-rail

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



#### Wall-mount

- Step 1 :** Screw the two pieces of wall-mount kits to the top and bottom panels of the device. A total of eight screws are required, as shown below.
- Step 2 :** Use the device, with wall mount plates attached, as a guide to mark the correct locations of the four screws.
- Step 3 :** Insert a screw head through middle of the keyhole-shaped aperture on the plate, and then slide the device downwards. Tighten the screw head for added stability.



#### Network Connection

The device has standard Ethernet ports. According to the link type, the AP uses CAT 3, 4, 5, 5e, 6 UTP cables to connect to any other network device (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

Cable	Type	Max. Length	Connector
10BASE-TX	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 (328ft)	RJ-45

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

### 10/100 Base-TX

RJ-45 Input (Data and Power)			RJ-45 Output (Data Only)	
Pin	Symbol	Description	Symbol	Description
1	Rx+ (Vdc1+)	Data Receive and Feeding power(+)	Rx+	Data Receive
2	Rx- (Vdc1+)	Data Receive and Feeding power(+)	Rx-	Data Receive
3	Tx+ (Vdc1-)	Data Transmit and Feeding power(-)	Tx+	Data Transmit
4	NC (Vdc2+)	Not Connected Feeding power(+)	NC	Not Connected
5	NC (Vdc2+)	Not Connected Feeding power(+)	NC	Not Connected
6	Tx- (Vdc1-)	Data Transmit and Feeding power(-)	Tx-	Data Transmit
7	NC (Vdc2-)	Not Connected Feeding power(-)	NC	Not Connected
8	NC (Vdc2-)	Not Connected Feeding power(-)	NC	Not Connected

**Note:** pins 3 and 6 (-Vdc) should not be shorted to ground

### 1000 Base-T

RJ-45 Input (Data and Power)			RJ-45 Output (Data Only)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+ (Vdc1+)	Data BI_DA+ and Feeding Power(+)	BI_DA+	Data BI_DA+
2	BI_DA- (Vdc1+)	Data BI_DA- and Feeding Power(+)	BI_DA-	Data BI_DA-
3	BI_DB+ (Vdc1-)	Data BI_DB+ and Feeding Power(-)	BI_DB+	Data BI_DB+
4	BI_DC+ (Vdc2+)	Data BI_DC+ Feeding Power(+)	BI_DC+	Data BI_DC+
5	BI_DC- (Vdc2+)	Data BI_DC- Feeding Power(+)	BI_DC-	Data BI_DC-
6	BI_DB- (Vdc1-)	Data BI_DB- and Feeding Power(-)	BI_DB-	Data BI_DB-
7	BI_DD+ (Vdc2-)	Data BI_DD+ Feeding Power(-)	BI_DD+	Data BI_DD+
8	BI_DD- (Vdc2-)	Data BI_DD- Feeding Power(-)	BI_DD-	Data BI_DD-

## Configurations

After installing the device and connecting cables, the green power LED should turn on. Please refer to the following table for LED indication.

LED	Color	Status	Description
Power	Green	On	Power is on

## Specifications

ORing Splitter Model	SPL-101GT++-24V	SPL-101GT++-12V
Physical Ports		
RJ-45 Ethernet Port with P.S.E. Input	1	
RJ-45 Ethernet Port Output	1	
Power Output Connector	4-pin terminal block	
Operating Voltage		
Power Output Voltage	24V @ 2.5A ±5% typica	12V @ 5A ±5% typica
Power		
Input Power	90W P.D input	
Protection		
Short Circuit Protection	Present	
Over Load Protection	Present	
Physical Characteristic		
Enclosure	IP-30	
Dimension (W x D x H)	41(W)x75(D)x115(H) mm (1.61 x 2.95 x 4.52 inch.)	
Weight (g)	366g	
Environmental		
Storage Temperature	-40 to 80°C (-40 to 176°F)	
Operating Temperature	-40 to 75°C (-40 to 167°F)	
Operating Humidity	5% to 95% Non-condensing	
Regulatory Approvals		
EMC	EN55032, EN55024	
EMI	FCC Part 15B Class A, CISPR 22 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	IES60068-2-6	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
MTBF	1676582hr	
Warranty	5 years	

**ORing**

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