

# SPL-101GT Series



## Industrial 1-port Gigabit PoE Splitter

### Features

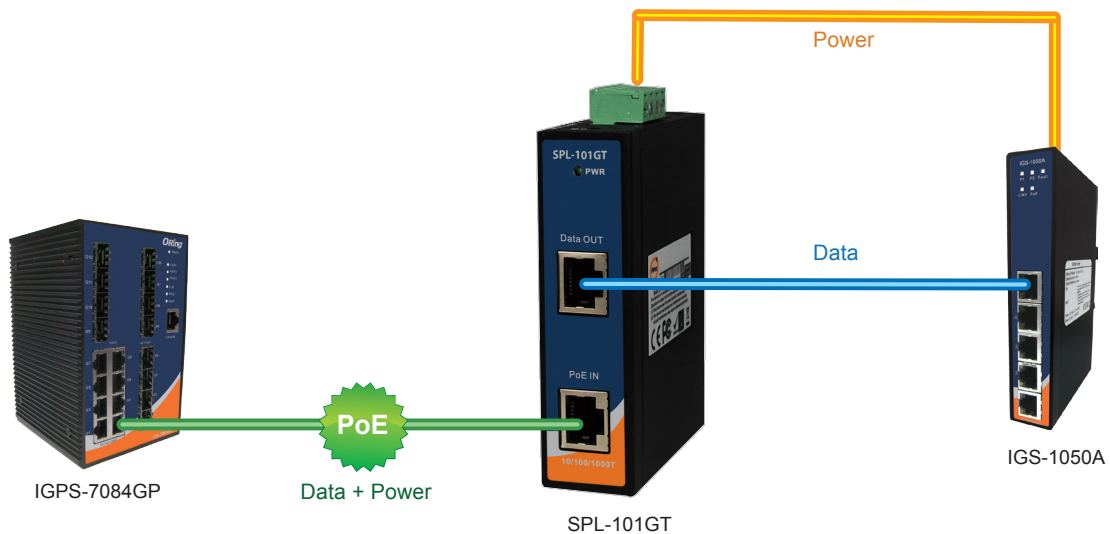
- Fully compliant with IEEE802.3at standard
- Supports 10/100/1000Base-T(X) for PoE In and Data Out
- Power Isolation and Short Circuit Protection for Power Output
- Auto protection for Over Voltage Power Input
- Supports Power Outputs up to 21Watts Max.
- IP-30 Rugged Case Design
- DIN-Rail and Wall Mount Design



### Introduction

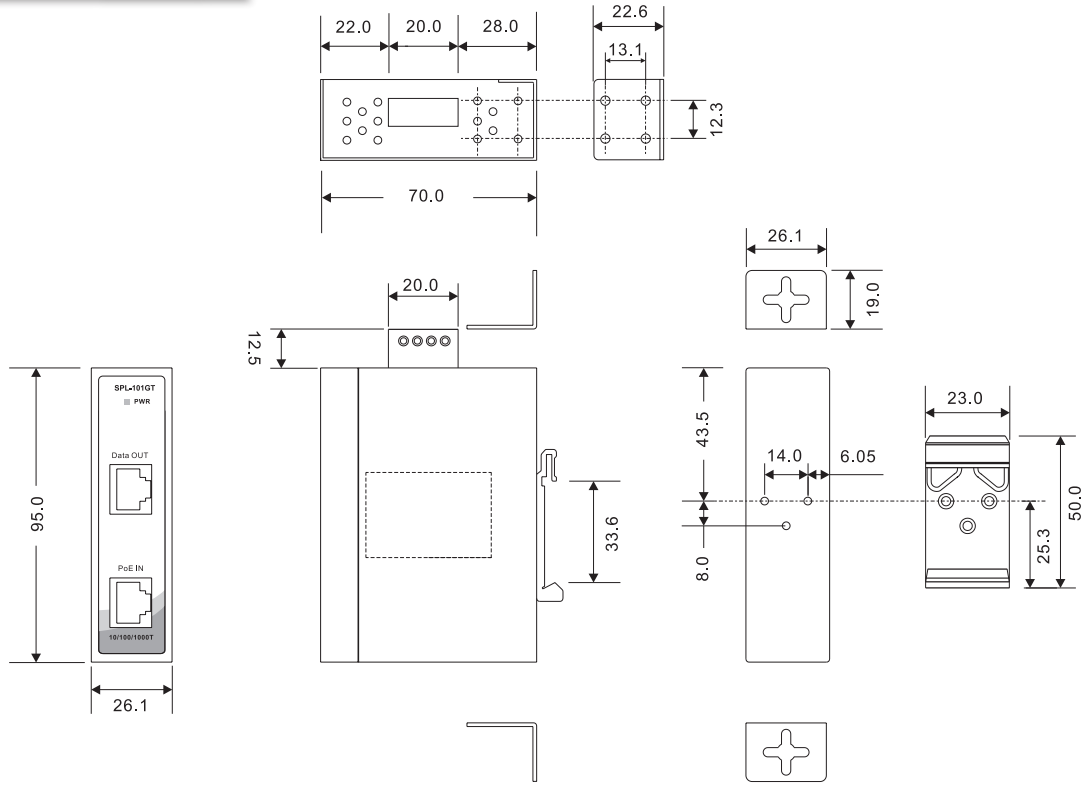
SPL-101GT series is a high power PoE+ Splitter for use in Power over Ethernet systems. With Ethernet Input (data + power) port and Output (data only) port, SPL-101GT may split power from existing LAN cable and convert up to 24VDC/0.9A or 12VDC/1.8A(SPL-101GT-12V) for power hungry applications such as Wireless APs, Security cameras and IP Phones. The internal current limit, short-circuit and overload protection are implemented for use as a DC power supply.

### Practical Operation



Connections of Splitter

**Dimensions**



(Unit=mm)

**Connectors and Pin Definitions**

[ PoE Definition 1 ]

1000 Base-T

| Pin No. | RJ-45 Input (Data and Power) |                                  | RJ-45 Output (Data Only) |             |
|---------|------------------------------|----------------------------------|--------------------------|-------------|
|         | Symbol                       | Description                      | Symbol                   | Description |
| 1       | BI_DA+                       | Data BI_DA+                      | BI_DA+                   | Data BI_DA+ |
| 2       | BI_DA-                       | Data BI_DA-                      | BI_DA-                   | Data BI_DA- |
| 3       | BI_DB+                       | Data BI_DB+                      | BI_DB+                   | Data BI_DB+ |
| 4       | BI_DC+ (VDC+)                | Data BI_DC+ and Feeding Power(+) | BI_DC+                   | Data BI_DC+ |
| 5       | BI_DC- (VDC+)                | Data BI_DC- and Feeding Power(+) | BI_DC-                   | Data BI_DC- |
| 6       | BI_DB-                       | Data BI_DB-                      | BI_DB-                   | Data BI_DB- |
| 7       | BI_DD+ (VDC-)                | Data BI_DD+ and Feeding Power(-) | BI_DD+                   | Data BI_DD+ |
| 8       | BI_DD- (VDC-)                | Data BI_DD- and Feeding Power(-) | BI_DD-                   | Data BI_DD- |

10/100 Base-T(X)

| Pin No. | RJ-45 Input (Data and Power) |                  | RJ-45 Output (Data Only) |               |
|---------|------------------------------|------------------|--------------------------|---------------|
|         | Symbol                       | Description      | Symbol                   | Description   |
| 1       | Rx+                          | Data Receive     | Rx+                      | Data Receive  |
| 2       | Rx-                          | Data Receive     | Rx-                      | Data Receive  |
| 3       | Tx+                          | Data Transmit    | Tx+                      | Data Transmit |
| 4       | VDC+                         | Feeding power(+) | NC                       | Not Connected |
| 5       | VDC+                         | Feeding power(+) | NC                       | Not Connected |
| 6       | Tx-                          | Data Transmit    | Tx-                      | Data Transmit |
| 7       | VDC-                         | Feeding power(-) | NC                       | Not Connected |
| 8       | VDC-                         | Feeding power(-) | NC                       | Not Connected |

**Note:** Pins 7 and 8 (-VDC) should not be shorted to ground.

## [ PoE Definition 2 ]

## 1000 Base-T

| Pin No. | RJ-45 Input (Data and Power) |                                  | RJ-45 Output (Data Only) |             |
|---------|------------------------------|----------------------------------|--------------------------|-------------|
|         | Symbol                       | Description                      | Symbol                   | Description |
| 1       | BI_DA+ (VDC+)                | Data BI_DA+ and Feeding Power(+) | BI_DA+                   | Data BI_DA+ |
| 2       | BI_DA- (VDC+)                | Data BI_DA- and Feeding Power(+) | BI_DA-                   | Data BI_DA- |
| 3       | BI_DB+ (VDC-)                | Data BI_DB+ and Feeding Power(-) | BI_DB+                   | Data BI_DB+ |
| 4       | BI_DC+                       | Data BI_DC+                      | BI_DC+                   | Data BI_DC+ |
| 5       | BI_DC-                       | Data BI_DC-                      | BI_DC-                   | Data BI_DC- |
| 6       | BI_DB- (VDC-)                | Data BI_DB- and Feeding Power(-) | BI_DB-                   | Data BI_DB- |
| 7       | BI_DD+                       | Data BI_DD+                      | BI_DD+                   | Data BI_DD+ |
| 8       | BI_DD-                       | Data BI_DD-                      | BI_DD-                   | Data BI_DD- |

## 10/100 Base-T(X)

| Pin No. | RJ-45 Input (Data and Power) |                                    | RJ-45 Output (Data Only) |               |
|---------|------------------------------|------------------------------------|--------------------------|---------------|
|         | Symbol                       | Description                        | Symbol                   | Description   |
| 1       | Rx+ (VDC+)                   | Data Receive and Feeding power(+)  | Rx+                      | Data Receive  |
| 2       | Rx- (VDC+)                   | Data Receive and Feeding power(+)  | Rx-                      | Data Receive  |
| 3       | Tx+ (VDC-)                   | Data Transmit and Feeding power(-) | Tx+                      | Data Transmit |
| 4       | NC                           | Not Connected                      | NC                       | Not Connected |
| 5       | NC                           | Not Connected                      | NC                       | Not Connected |
| 6       | Tx- (VDC-)                   | Data Transmit and Feeding power(-) | Tx-                      | Data Transmit |
| 7       | NC                           | Not Connected                      | NC                       | Not Connected |
| 8       | NC                           | Not Connected                      | NC                       | Not Connected |

**Note:** Pins 3 and 6 (VDC-) should not be shorted to ground.

## Specifications

| ORing Splitter Model                  | SPL-101GT   | SPL-101GT-12V                                |
|---------------------------------------|---|--|
| <b>Physical Ports</b>                 |   |  |
| RJ-45 Ethernet Port with P.S.E. Input | 1   |  |
| RJ-45 Ethernet Port Output            | 1   |  |
| Power Output Connector                | 4-pin terminal block  |  |
| <b>Operating Voltage</b>              |   |  |
| Input Voltage                         | 36 ~ 57 VDC on PoE in RJ-45 connector                                     |  |
| Output Voltage                        | 24V ± 5% @ 0.9A max. on 4-pin terminal block                              | 12V ± 5% @ 1.8A max. on 4-pin terminal block |
| Efficiency                            | 80.7%   | 79%  |
| <b>LED Indicator</b>                  |   |  |
| Power Indicator                       | PWR / Ready: 1 x LED<br>Blue On: Power is on and is functioning Normally. |  |
| <b>Protection</b>                     |   |  |
| Short Circuit Protection              | Present   |  |
| Over Load Protection                  | Present   |  |
| <b>Physical Characteristics</b>       |   |  |
| Enclosure                             | IP-30   |  |
| Dimensions (W x D x H)                | 26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)                    |  |
| Weight (g)                            | 250g  |  |
| <b>Environmental</b>                  |   |  |
| Storage Temperature                   | -40 to 80°C (-40 to 176°F)  |  |
| Operating Temperature                 | -20 to 70°C (-4 to 158°F)   |  |
| Operating Humidity                    | 5% to 90% Non-condensing  |  |

| Regulatory Approvals |  |
|----------------------|--|
| EMI                  | FCC Part 15, CISPR (EN55022) class B   |
| 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 |
| Safety               | EN60950-1  |
| Warranty             | 5 years  |

## Ordering Information

**SPL-101GT-12V**

| Code Definition | Output voltage  |
|-----------------|---|
| <b>Option</b>   | - <b>Normal:</b> 24VDC power output<br>- <b>12V:</b> 12VDC power output |

| Available Model   | Model Name    | Description   |
|---|---------------|---|
|   | SPL-101GT     | Industrial 1-port Gigabit High Power PoE Splitter, IEEE802.3at standard compliant               |
|   | SPL-101GT-12V | Industrial 1-port Gigabit High Power PoE Splitter, IEEE802.3at standard compliant, 12VDC output |
| <b>Packing List</b>   |               |   |
| <ul style="list-style-type: none"> <li>• SPL-101GT x 1</li> <li>• DIN-Rail Kit x 1</li> <li>• Wall-mount Kit x 1</li> </ul> |               |   |

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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