

SPL-101GT Series



Industrial 1-port Gigabit PoE Splitter

Features

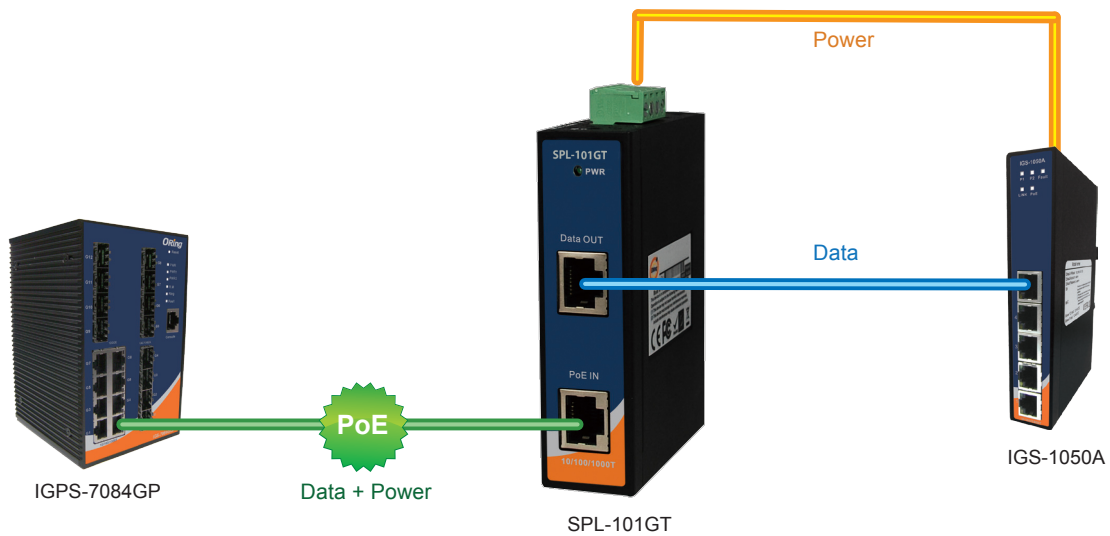
- Fully compliant with IEEE802.3at standard
- Supports 10/100/1000Base-T(X) for PoE In and Data Out
- Power Isolation and Short Circuit Protection for Power Output
- Auto protection for Over Voltage Power Input
- Supports Power Outputs up to 21Watts Max.
- IP-30 Rugged Case Design
- DIN-Rail and Wall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



Introduction

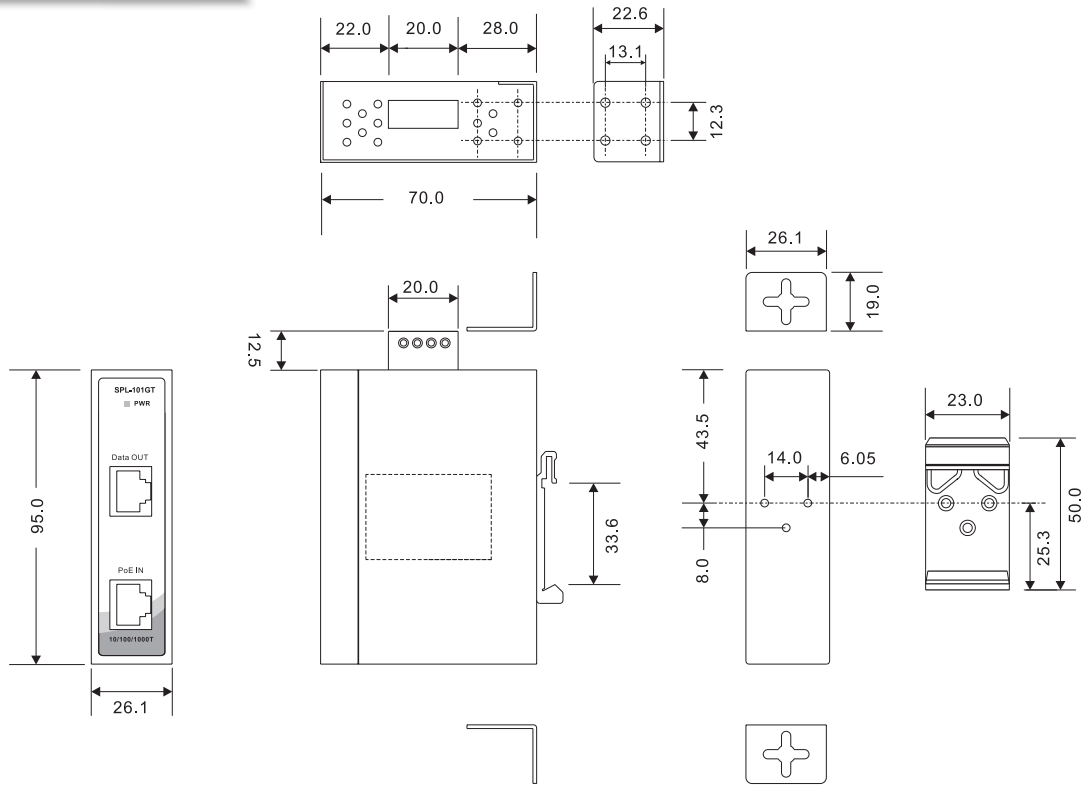
SPL-101GT series is a high power PoE+ Splitter for use in Power over Ethernet systems. With Ethernet Input (data + power) port and Output (data only) port, SPL-101GT may split power from existing LAN cable and convert up to 24VDC/0.9A or 12VDC/1.8A(SPL-101GT-12V) for power hungry applications such as 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 |
|---------------------------------------|---|--|
| 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 | | |
| 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% |
| LED Indicator | | |
| Power Indicator | PWR / Ready: 1 x LED Blue On: Power is on and is functioning Normally. | |
| Protection | | |
| Short Circuit Protection | Present | |
| Over Load Protection | Present | |
| Physical Characteristics | | |
| 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 | |
| Environmental | | |
| 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 |
|-----------------|---|
| Option | - Normal: 24VDC power output - 12V: 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 |

Packing List

- SPL-101GT x 1
- DIN-Rail Kit x 1
- Wall-mount Kit x 1