

SPL-101GT Series



Industrial 1-port Gigabit PoE Splitter

Features

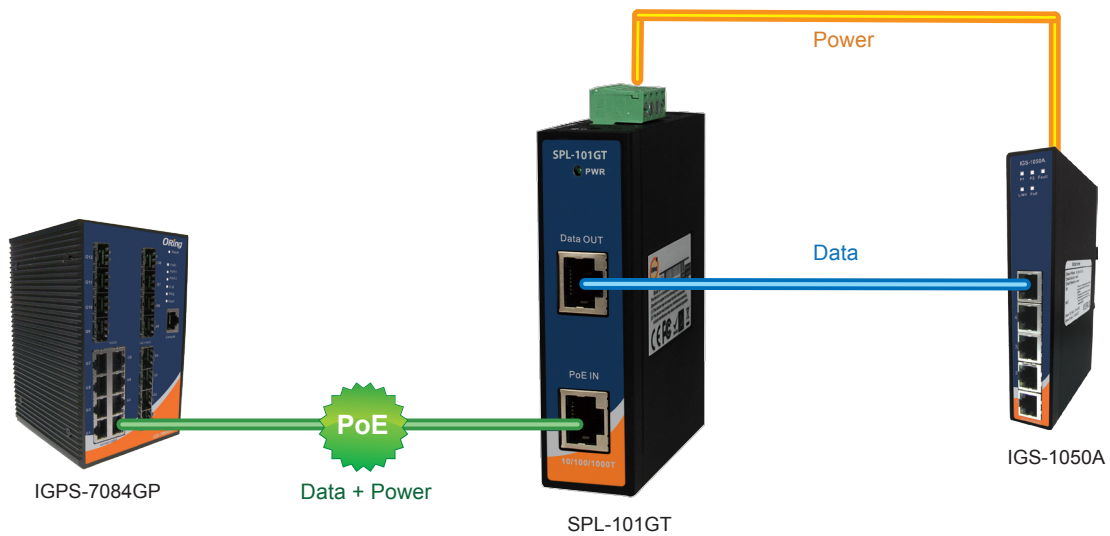
- Fully compliant with IEEE802.3at standard
- Supports 10/100/1000Base-T(X) for PoE In and Data Out
- Power Isolation and Short Circuit Protection for Power Output
- Auto protection for Over Voltage Power Input
- Supports Power Outputs up to 21Watts Max.
- IP-30 Rugged Case Design
- DIN-Rail and Wall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



Introduction

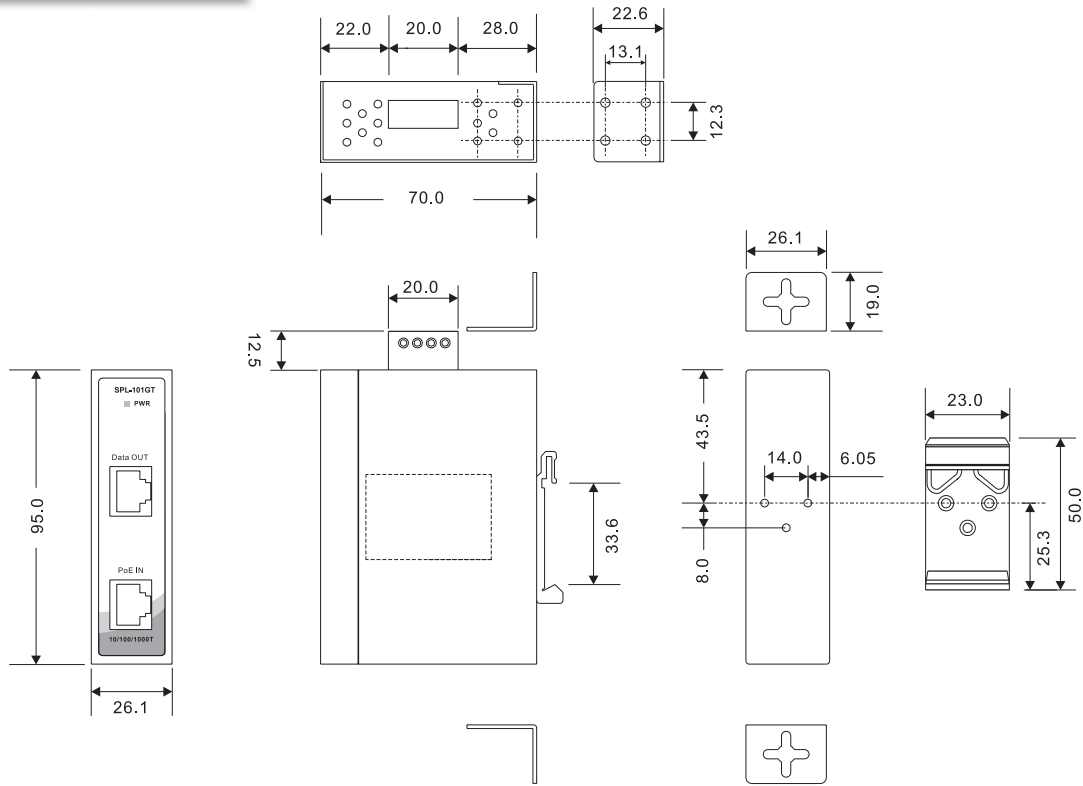
SPL-101GT series is a high power PoE+ Splitter for use in Power over Ethernet systems. With Ethernet Input (data + power) port and Output (data only) port, SPL-101GT may split power from existing LAN cable and convert up to 24VDC/0.9A or 12VDC/1.8A(SPL-101GT-12V) for power hungry applications such as 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