

iPS2



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Industrial 1 Port Gigabit PoE Splitter

Features

- Fully compliant with IEEE 802.3at standard
- Supports 10/100/1000Base-T(X) for PoE In and Data Out
- Power Isolation and Short Circuit Protection for Power Output
- Automatic protection for Over-Voltage Power Input
- Supports Power Output of up to 30 Watts
- IP-40 Case Design
- DIN-Rail and Panel Mount Design



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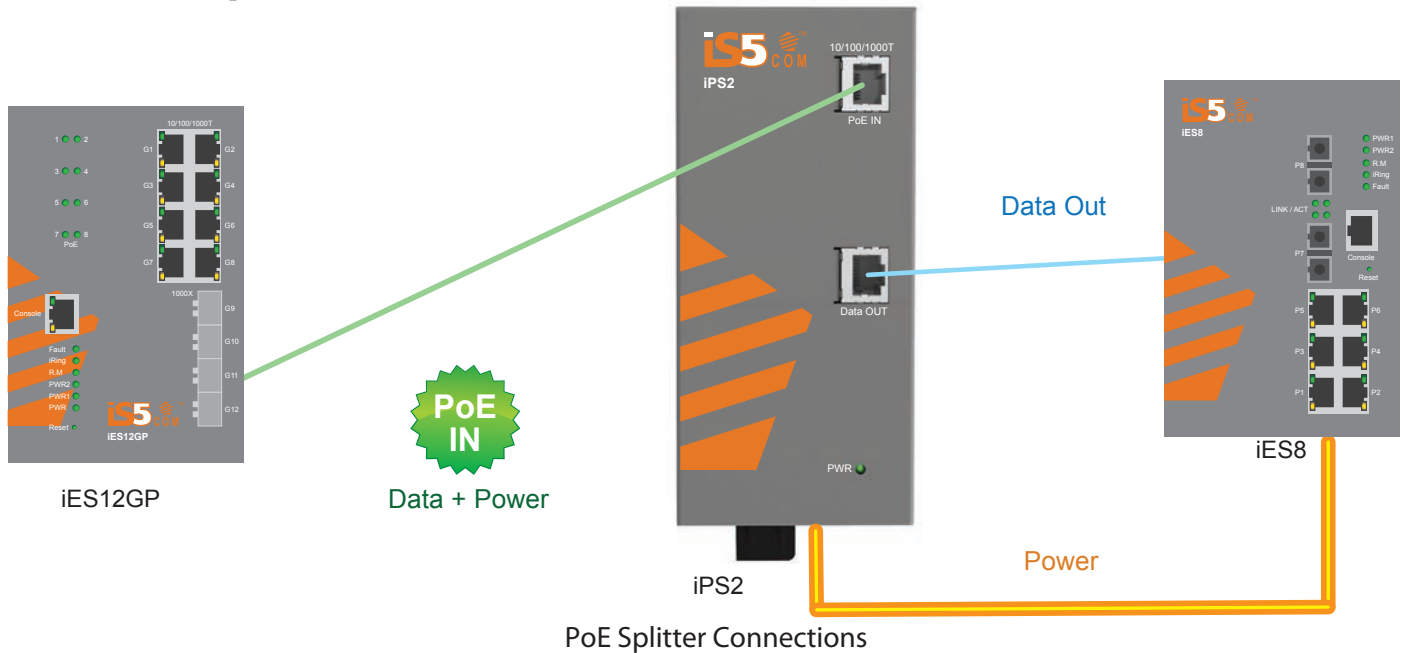
#3-7490 Pacific Circle, Mississauga, Ontario, L5T 2A3



Introduction

The iPS2 is a high-power PoE Splitter for use in Power over Ethernet systems. With an Ethernet Input (data + power) port and Output (data only) port, the iPS2 will split power from an existing LAN cable and convert it up to 24VDC/1.25A for power-hungry applications such as wireless APs, security cameras, and IP Phones. The internal current limiter, as well as, short-circuit and overload protection have been implemented so that the iPS2 may be used as a DC power supply.

Practical Operation



Connectors and Pin Definitions

[PoE Pin Definition 1]				
1000 Base-T				
	RJ-45 Input (Data and Power)		RJ-45 Output (Data Only)	
Pin No.	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+	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_DDNote



10/100 Base-T(X)

		RJ-45 Input (Data and Power)		RJ-45 Output (Data Only)	
Pin No.	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 Pin Definition 2]

1000 Base-T

		RJ-45 Input (Data and Power)		RJ-45 Output (Data Only)	
Pin No.	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_DDRJ	

10/100 Base-T(X)

		RJ-45 Input (Data and Power)		RJ-45 Output (Data Only)	
Pin No.	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.



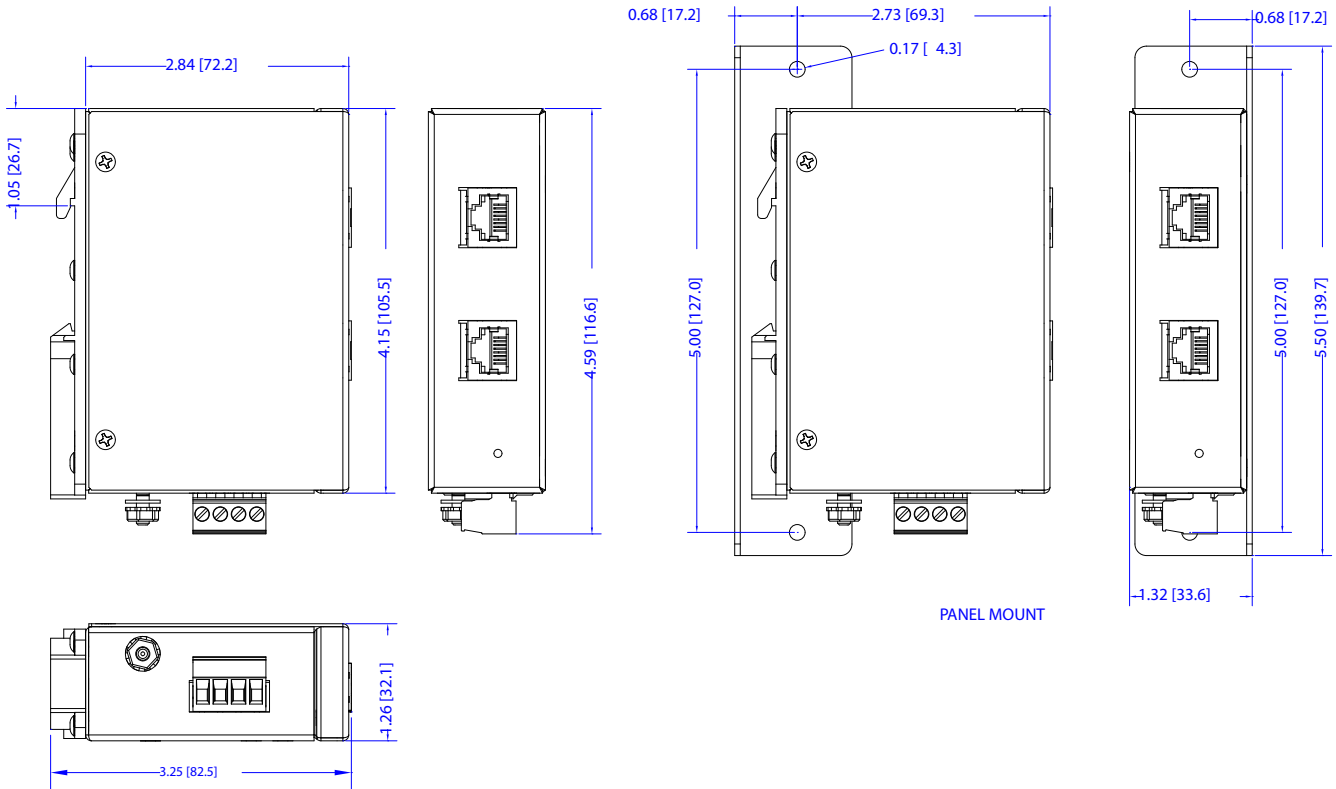
Specifications

Model Number	iPS2
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
Output Voltage	24V @ 1.25A max.
LED indicators	
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
Isolation Protection	1500V
Physical Characteristic	
Enclosure	IP-40
Dimension (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 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
Safety	EN60950-1
Warranty	
Warranty	5 Years



Dimensions

All Dimensions are in mm



PANEL MOUNT

Ordering Information

Base	Power Supply	Mount	Port 1	Ports 2	Description
iPS2	LV	D	1RJ45	1RJ45	
iPS2					Core assembly and packaging
	MV				Input (36-57VDC)
		D			DIN Rail Mounting
		P			Panel Mounting
		N			No Mounting Hardware
			1RJ45	1RJ45	10/100/1000Base TX RJ45