

# MIT-74GD-BT

## 4 Ports Gigabit PoE Injector

### USER'S MANUAL



MSTRONIC CO., LTD.

# 1. General Information

The MIT-74GD-BT is a DC/DC PoE (Power over Ethernet) Injector, provide up to 4 different voltage DC input and four different voltage PoE output, output power maximum 90W/port (56V), data rate can be operating at 10M/100M/1000M. The polarity of each PoE output can be reversed if you need to reverse the output polarity. This manual will help you to install and setting the PoE injector.

# 2. Hardware Description



4	3	2	1	Data in
4	3	2	1	Data + Power out

Front panel detail  
the port number is as the diagram shows.



Rear panel detail

## \*LED Indicator

There are 4 LEDs on the front panel to indicate the input and output power status of each port.

LED	STATUS	Description
1~4	Green	A valid power device is detected on this port.
	Red	No power device is detected on this port.
	Off	No input power apply, or input source alarm. Alarm voltage is larger than 58VDC, or less than 10.5VDC. Alarm current is 2A.

## \*Data Input

The upper ports 1-4 on the front panel are used for Gigabit Ethernet data input.

All four ports with surge protection.

## \*Power Input

The input voltage range of MIT-74GD-BT is 44VDC to 57VDC, they are all common negative design, the green terminal (CON1) on rear panel is used for power input wiring, it can be connected to maximum 4 different sources with 4 different voltages, the jumper A, B, C, of JP1 on rear panel controls the input/output connection, its setting as below. (1=jumper on, 0=off)

Jumper Input	A (1-2)	B (1-3)	C (1-4)	PoE Output
VIN1+	<b>1</b>	<b>1</b>	<b>1</b>	<b>PoE 1/2/3/4=VIN1 (Factory setting)</b>
VIN1+ VIN4+	<b>1</b>	<b>1</b>	<b>0</b>	PoE 1/2/3=VIN1 PoE 4=VIN4
VIN1+ VIN3+	<b>1</b>	<b>0</b>	<b>1</b>	PoE 1/2/4=VIN1 PoE 3=VIN3
VIN1+ VIN3+ VIN4+	<b>1</b>	<b>0</b>	<b>0</b>	PoE1/2=VIN1 PoE3=VIN3 PoE4=VIN4
VIN1+ VIN2+	<b>0</b>	<b>1</b>	<b>1</b>	PoE1/3/4=VIN1 PoE2=VIN2
VIN1+ VIN2+ VIN4+	<b>0</b>	<b>1</b>	<b>0</b>	PoE1/3=VIN1 PoE2=VIN2 PoE4=VIN4
VIN1+ VIN2+ VIN3+	<b>0</b>	<b>0</b>	<b>1</b>	PoE1/4=VIN1 PoE2=VIN2 PoE3=VIN3
VIN1+ VIN2+ VIN3+ VIN4+	<b>0</b>	<b>0</b>	<b>0</b>	PoE 1=VIN1 PoE 2=VIN2 PoE 3=VIN3 PoE 4=VIN4

## \*PoE Output

The bottom ports 1-4 on the front panel are used for carry PoE output, the output voltage is the same as input, no regulated. Normally as detailed below:

- \* Data pair A on line 1 and 2
- \* Data pair B on line 3 and 6
- \* Data pair C plus V+ on line 4 and 5
- \* Data pair D plus V- on line 7 and 8

The MIT-74GD-BT may deliver PoE output with 90W/port @ 1000Mbps.

## \*Output Polarity Reverse (for technician operation only)

The MIT-74GD-BT may deliver PoE output with reverse polarity. Just move related jumpers from pin 1-2 to pin 2-3, and then

- \* Data pair C carry V- on line 4 and 5
- \* Data pair D carry V+ on line 7 and 8

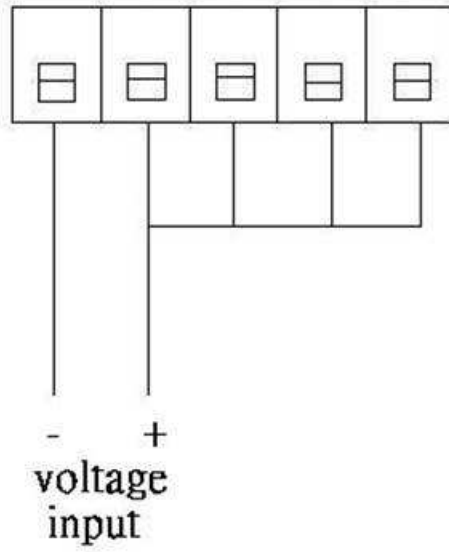
## 4. Technical Information

Data Rate	10M/100M/1000M
Input:	For MIT-74GD-BT, 44VDC to 57VDC ,8.2A @44Vin
Output:	For MIT-74GD-BT,44-57VDC, each port with 90W
PoE protection	over-current, over/under voltage
LEDs:	Green-PD detect, Red-Power ready, Off-No power apply
Operating temperature	-40°C~ +70°C
Operation humidity	90% relative humidity, non-condensing
Storage temperature	-40°C~+85°C
Dimension	40mm(H) x118mm(W) x90mm(D) DIN RAIL Mountable

### NOTICE:

The product is not comply to LPS requirement, it need to evaluate at final system.

$V_{in} - V_{in1} + V_{in2} + V_{in3} + V_{in4} +$



Recommend input connection

