



# MSTronic Co., Ltd.

2F, 12, Gongshang Rd., Wugu District, New Taipei City, 248, Taiwan

TEL:886-2-2293-0159 FAX:886-2-2292-8851

E.MAIL: mse@mse.com.tw

WEB: <http://www.mse.com.tw>

## SPECIFICATION

### DIN-POE12-2456DBNx2

#### DC/DC 5Gigabit PoE Injector

802.3bt Compliant

#### 1. INPUT :

- 1.1 Input Voltage: DC 18V ~ 57V
- 1.2 Input Current:
  - 11.6A at 18Vdc @F.L 90W\*2
  - 8.71A at 24Vdc @F.L 90W\*2
  - 3.66A at 57Vdc @F.L 90W\*2

#### 2. OUTPUT :

- 2.1 Output Voltage & Current:

| OUTPUT      | POE 1   | POE 2   |
|-------------|---------|---------|
| Voltage     | +56V    | +56V    |
| Max. load   | 1.6A    | 1.6A    |
| Power       | 90W Max | 90W Max |
| Min. Load   | 0A      | 0A      |
| Load reg. % | 5%      | 5%      |
| Line reg. % | 1%      | 1%      |
| Ripple %    | 1%      | 1%      |
| Noise %     | 2%      | 2%      |

**TOTAL POWER : 180W**



- 3. EFFICIENCY : 90% min. at DC 24V Input @F.L

#### 4. PROTECTION

- 4.1 Short Circuit Protection

Output short will not damage the model, it will auto-recover when load back to normal.

- 4.2 Over Current Limits : 802.3BT Class 8 , Type 4



# MSTronic Co., Ltd.

2F, 12, Gongshang Rd., Wugu District, New Taipei City, 248, Taiwan

TEL:886-2-2293-0159 FAX:886-2-2292-8851

E.MAIL: mse@mse.com.tw

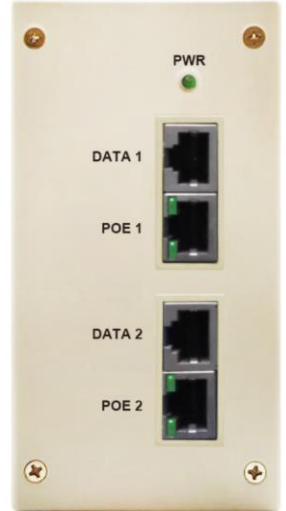
WEB: <http://www.mse.com.tw>

- 4.3 Input with Fuse Protection
- 4.4 Input Reverse Protection-----NO Work
- 4.5 Indicators:

The PWR LED: light GREEN means input power OK.

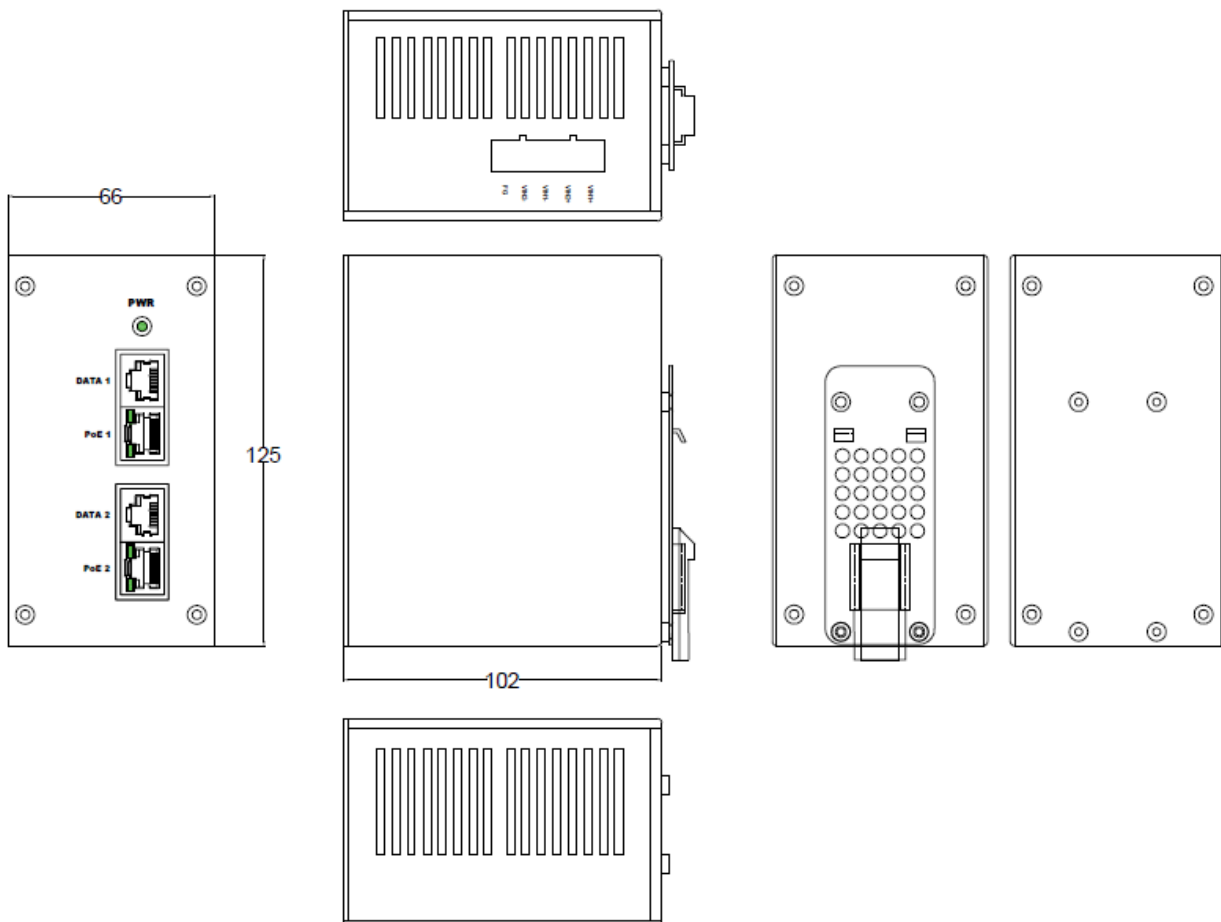
The LEDs on RJ45s: light GREEN means POE Output –OK

(Upper for spare pairs, lower for data pairs)



## 5. GENERAL DESCRIPTION

- 5.1 Operation Temperature: -40 - +70 Degree
- 5.2 Storage Temperature: -40 - +85 Degree
- 5.3 Operation Humidity: 5% - 90% (40 Degree)
- 5.4 Cooling: Free air cooling
- 5.5 SIZE 66 x 125 x 102 mm (L\*W\*H)





# MSTronic Co., Ltd.

2F, 12, Gongshang Rd., Wugu District, New Taipei City, 248, Taiwan

TEL:886-2-2293-0159 FAX:886-2-2292-8851

E.MAIL: mse@mse.com.tw

WEB: <http://www.mse.com.tw>

## 6. CONNECTION : RJ45 pin assignment: @10/100/1000/5000MBASE

| Pin | RJ-45 Input (Data Only) |              | RJ-45 Output (Data & Power) |                       |
|-----|-------------------------|--------------|-----------------------------|-----------------------|
|     | Symbol                  | Description  | Symbol                      | Description           |
| 1   | BI_DA+                  | Data Pair A+ | -Vdc+BI_DA+                 | power(-)+Data Pair A+ |
| 2   | BI_DA-                  | Data Pair A- | -Vdc+BI_DA-                 | power(-)+Data Pair A- |
| 3   | BI_DB+                  | Data Pair B+ | +Vdc+BI_DB+                 | power(+)+Data Pair B+ |
| 4   | BI_DC+                  | Data Pair C+ | +Vdc+BI_DC+                 | power(+)+Data Pair C+ |
| 5   | BI_DC-                  | Data Pair C- | +Vdc+BI_DC-                 | power(+)+Data Pair C- |
| 6   | BI_DB-                  | Data Pair B- | +Vdc+BI_DB-                 | power(+)+Data Pair B- |
| 7   | BI_DD+                  | Data Pair D+ | -Vdc+BI_DD+                 | power(-)+Data Pair D+ |
| 8   | BI_DD-                  | Data Pair D- | -Vdc+BI_DD-                 | power(-)+Data Pair D- |

Note :

1. The model is Non-isolated design, the input(-) is **Only** can be shorted to ground (FG).
2. The model with 802.3bt output, make sure your end device meet the 802.3bt protocol.

## 7. CONNECTOR FIGURE : 5EHDRM-05P

Input : Allow two inputs for redundant.

VIN1+ = VIN2+ ; VIN1- = VIN2-

