

MSTronic Co., Ltd.

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MIT-21G-1824

Gigabit 802.3at PoE Converter

18V/24V Switchable

SPECIFICATION

1. INPUT :

1.1 Input Voltage: DC40V to DC60V NORMAL= 56V

1.2 Under Voltage Lockout: DC -32V

2. OUTPUT :

2.1 Output Voltage & Current: 18V/24V switchable

OUTPUT	+18V	+24V
Max. load	1.39A _{max}	1.041A
Power	25W max	25W Max
Min. Load	0A	0A
Load reg. %	5%	5%
Line reg. %	1%	1%
Ripple %	2%	2%
Noise %	5%	5%

TOTAL POWER :25W

Note 1: Ripple & Noise bandwidth is from DC to 20Mhz.

Terminated With a 47uF Capacitor and 0.1uf MPE Capacitor of Proper Polarity.

3. EFFICIENCY : 80% min @56Vin dc

4.

4. PROTECTION

4.1 Short Circuit Protection

output Short GND Terminal will not damage the Power Supply and will Auto-Reset.

4.2 Operation frequency is 150KHZ (min)

4.3 Isolation Voltage : 1500Vdc

4.4 Isolation Resistance :100M ohms (min)

4.5 Input Set class Resistance : 25K ohms

4.6 Maximum Capacitive Load : 470UF (24V = 100UF)

4.7 LED Green work as 802.3at Model.

LED Red work as 802.3af Model

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5. GENERAL DESCRIPTION

- | | | | | |
|-----|------------------------|---------------------|---|---------------|
| 5.1 | Operation Temperature: | -25 | - | +50 Degree |
| 5.2 | Storage Temperature: | -40 | - | +85 Degree |
| 5.3 | Operation Humidity: | 5% | - | 90% 45 Degree |
| 5.4 | Cooling: | Free air cooling | | |
| 5.5 | SIZE : | 85*78*36 (L*W*H)m/m | | |

6. CHANNEL CONNECTORS & PINOUT :

6.1 Power-Hub RJ45 Socket (per channel) data & Power-Hub RJ45 Socket

RJ-45 Input (Data & Power)		
Pin	Symbol	Description
1	BI_DA+, Vin +/-	Data Pairs A+/ Feeding power(+/-)
2	BI_DA-, Vin +/-	Data Pairs A-/ Feeding power(+/-)
3	BI_DB+, Vin +/-	Data Pairs B+/ Feeding power(+/-)
4	BI_DC+, Vin +/-	Data Pairs C+/ Feeding power(+/-)
5	BI_DC-, Vin +/-	Data Pairs C-/ Feeding power(+/-)
6	BI_DB-, Vin +/-	Data Pairs B-/ Feeding power(+/-)
7	BI_DD+, Vin +/-	Data Pairs D+/ Feeding power(+/-)
8	BI_DD-, Vin +/-	Data Pairs D-/ Feeding power(+/-)
9	Shield	Connector shielding

RJ-45 Output (Data & Power)		
Pin	Symbol	Description
1	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+
4	BI_DC+, Vo+	power(+)+Data Pair C+
5	BI_DC-, Vo+	power(+)+Data Pair C-
6	BI_DB-	Data Pair B-
7	BI_DD+, Vo-	power(-)+Data Pair D+
8	BI_DD-, Vo-	power(-)+Data Pair D-
9	Shield	Connector shielding

7.EMI

Meet FCC Class B standard

Meet EN55022 Class B standard



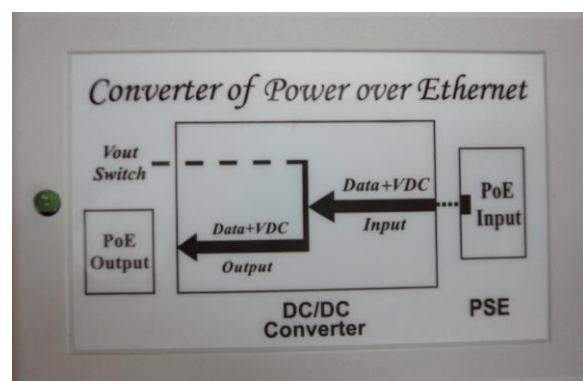
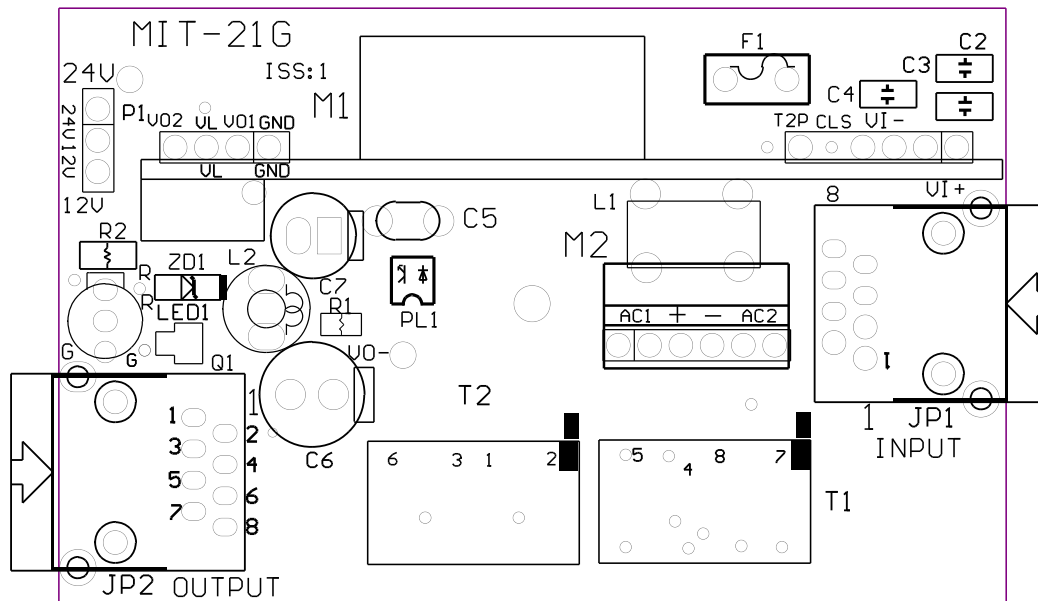
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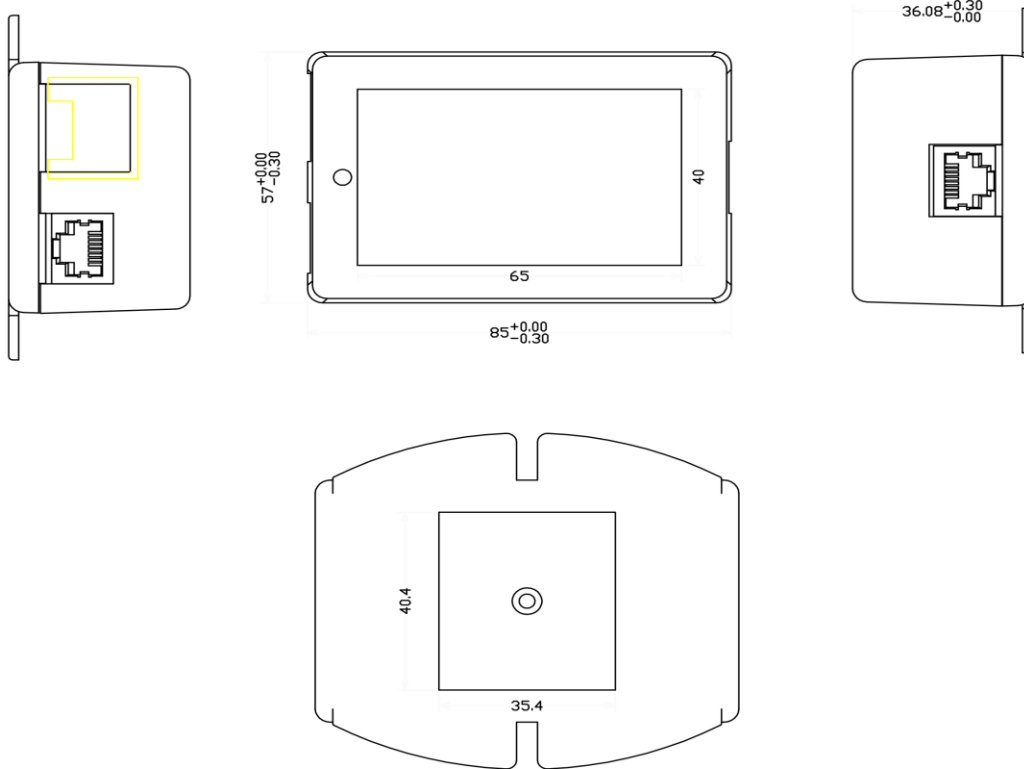
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SPEC. of SURGE/LIGHTNING PROTECTION



WS24DLC-B

Order Code: WS24DLC-B

Transient Voltage Suppressor

Features

- 500 Watts Peak Pulse Power per Line ($t_p = 8/20\mu s$)
- Bidirectional Configuration
- Protects One Power or I/O Port
- Low Clamping Voltages
- Ultra Low Capacitance: 1.0 pF Typical

IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 30kV$ (air), $\pm 30kV$ (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 9A (8/20 μs)



Electrical characteristics

PART NUMBER (See Note 1 & Note 2)	DEVICE MARKING	RATED STAND-OFF VOLTAGE V_{WM} (Volts)	MINIMUM BREAKDOWN VOLTAGE @ 1mA V_{BR} (Volts)	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ IPP = 1A V_C (Volts)	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ 8/20 μs VC @ IPP	MAXIMUM LEAKAGE CURRENT @ V_{WM} I_d (μA)	TYPICAL CAPACITANCE @ 0V, 1 MHz C(pF)
WS24DLC-B	CB	24.0	26.7	33.0	54.0V @ 9.0A	1	1