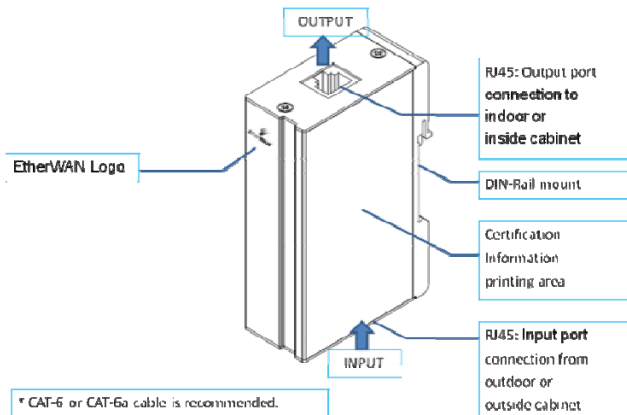


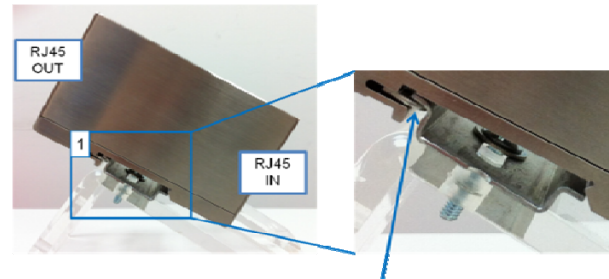
1 Introduction

Application Field

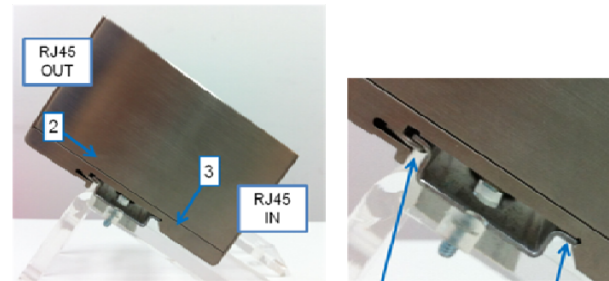
- Telecommunication interface and data transmission interface.
- Protection of signal pairs via RJ-45 connector.



2 Installation on the DIN-Rail

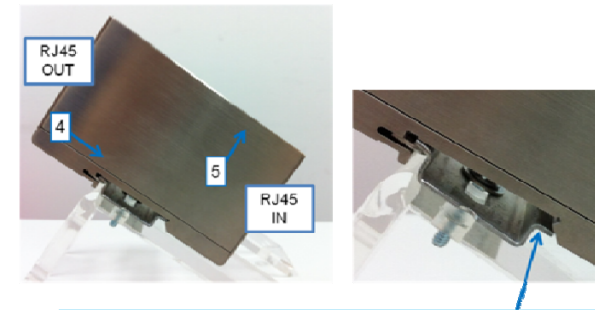


1. Put upper part of the DIN-Rail mount on the DIN-Rail



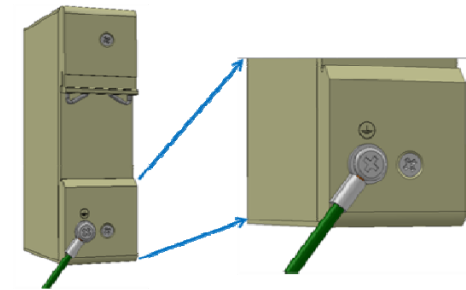
2. Press down the PD1041 and let DIN-Rail mount part fit into the DIN-Rail
3. Press PD1041 toward the DIN-Rail and PD1041 will clamp the DIN-Rail

3 Release from the DIN-Rail



4. Press down the PD1041
5. Uplift PD1041 and PD1041 release from DIN-Rail

4 Grounding



1. For DIN-Rail installation, the ground is via DIN-Rail rack in the cabinet
2. For other installation, an extra ground point is available via a screw and ground wire

Electrical Specification

Electrical

- Uc: 3.3VDC**
- Up: L-L \leq 100V, L-PE $<$ 1000V**
- Rated current: 1.5A**
- Impulse rating: L-L (B2-1kV/25A-PoE), L-E (C2-4kV/2kA)**
- Maximum continuous operating voltage U_c**
 - \leq 3.3V DC
- Maximum continuous voltage U_c (wire-wire)**
 - \leq 3.3 V DC (\pm 60 V DC/PoE+)
- Maximum continuous voltage U_c (wire-ground)**
 - \leq 180 V DC
- Nominal current I_n**
 - \leq 1.5 A (25 °C)
- Operating effective current I_C at U_c**
 - \leq 1 μ A
- Residual current I_{PE}**
 - \leq 8 μ A
- Nominal discharge surge current I_n (8/20) μ s (Core-Core)**
 - 100 A
- Nominal discharge surge current I_n (8/20) μ s (Core-Earth)**
 - 2 kA (per signal pair)
- Total surge current (8/20) μ s**
 - 10 kA
- Nominal pulse current I_{an} (10/700) μ s (Core-Core)**
 - \leq 40 A
- Nominal pulse current I_{an} (10/700) μ s (Core-Earth)**
 - \leq 160 A
- Output voltage limitation at 1 kV/ μ s (Core-Core) spike**
 - \leq 85 V (PoE)
- Output voltage limitation at 1 kV/ μ s (Core-Earth) spike**
 - \leq 700 V
- Output voltage limitation at 1 kV/ μ s (Core-Core) static**
 - \leq 9 V
- Output voltage limitation at 1 kV/ μ s (Core-Earth) static**
 - \leq 700 V
- Output voltage limitation at 100V/s (Core-Core)**
 - \leq 9 V
- Output voltage limitation at 100V/s (Core-Earth)**
 - \leq 300 V
- Output voltage limitation at 100V/ μ s (Core-Core)**
 - \leq 9 V
- Output voltage limitation at 100V/ μ s (Core-Earth)**
 - \leq 600 V
- Residual voltage at I_n, (conductor-conductor)**
 - \leq 15 V
 - \leq 100 V (PoE)
- Voltage protection level Up (Core-Core)**
 - \leq 9 V (B2 - 1 kV/25 A
 - \leq 100 V (B2 - 1 kV/25 A - PoE)
 - \leq 15 V (500 V/100 A)
- Voltage protection level Up (Core-Earth)**
 - \leq 600 V
 - \leq 700 V (C2 - 4 kV/2 kA)

- Response time t_A (Core-Core)**
 - \leq 1 ns
- Response time t_A (Core-Earth)**
 - \leq 100 ns
- Input attenuation a_E, sym.**
 - 1 dB (\leq 250 MHz)
- Near-end crosstalk attenuation**
 - \leq 35 dB (At 250 MHz / 100 Ω)
- Cut-off frequency f_g (3 dB), sym. in 100 Ohm system**
 - $>$ 500 MHz
- Capacity (Core-Core)**
 - typ. 5 pF (f= 1 MHz / VR= 0 V)
- Capacity (Core-Earth)**
 - typ. 2 pF (f= 1 MHz / VR= 0 V)
- Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)**
 - B2 (1 kV/25 A)
- Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)**
 - B2 (4 kV / 100 A)
 - C2 (4 kV / 2 kA)
 - D1 (1 kA)

Mechanical

- Casing**
 - Aluminum case
 - IP30
- Dimensions**
 - 62.5mm (W) x 100mm (H) x 30mm (D)
 - (2.5"(W) x 3.8"(H) x 1.18"(D))
- Weight**
 - 184g \pm 5%
- Installation**
 - DIN-Rail
- Connection**
 - RJ45 connector

Environment

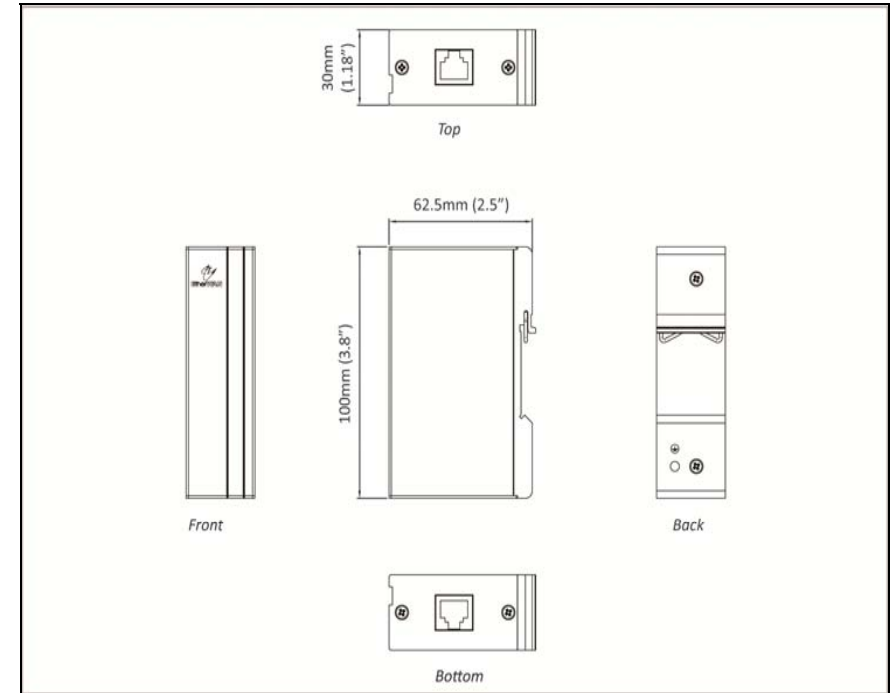
- Operating Temperature**
 - -40°C to 75°C (-40°F to 167°F)
- Storage Temperature**
 - -40°C to 85°C (-40°F to 185°F)
- Ambient Relative Humidity**
 - 5% to 95%, non-condensation

Regulatory Approvals

- ISO**
 - Manufactured in an ISO9001 facility
- EMI**
 - CE
 - FCC Part 15 Class B
 - VCCI
- TUV**
 - IEC61643-21
- UL**
 - UL497B

Mechanical Specification

Dimensions



Application Distance Limitation

