



migrate-ed9.hellosanta.tw/products/pd3041 PD3041

PD3041

Hardened Surge Protection Device – RJ11 & Two Wire Terminal Block





Overview

EtherWAN's PD3041 Hardened Surge Protection Device shields DSL equipment from dangerous power surges, ground loops, and electrical discharges caused by faulty wiring or lightning. With full wire-to-wire and wire-to-earth surge protection, the PD3041 is ideal for use in areas that have unstable supplies of electricity, and on sites that have excessive amounts of electromagnetic interference. Applications include outdoor IP cameras and access points, as well as rooftop networking cabinets.

EtherWAN — "When Connectivity is Crucial."

Spotlight

Robust Protection Against Voltage Surges

- Provides pair-to-pair protection through RJ11 connector & terminal block

Flexible Installation

- Supports DIN-rail or desktop installation

Wide Operating Temperature Range

- Operates in temperatures from -40 to 75°C, with throughput under 100Mbps

Specifications

Mechanical

- **Casing**
 - Aluminum Case
 - IP20
- **Dimensions**
 - 30 x 62.5 x 100mm (W x H x D)
 - (1.18" x 2.5" x 3.8")
- **Weight**
 - 184g \pm 5%
- **Installation**
 - RJ11 Connector / Terminal Block

Environment

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

Regulatory Approvals

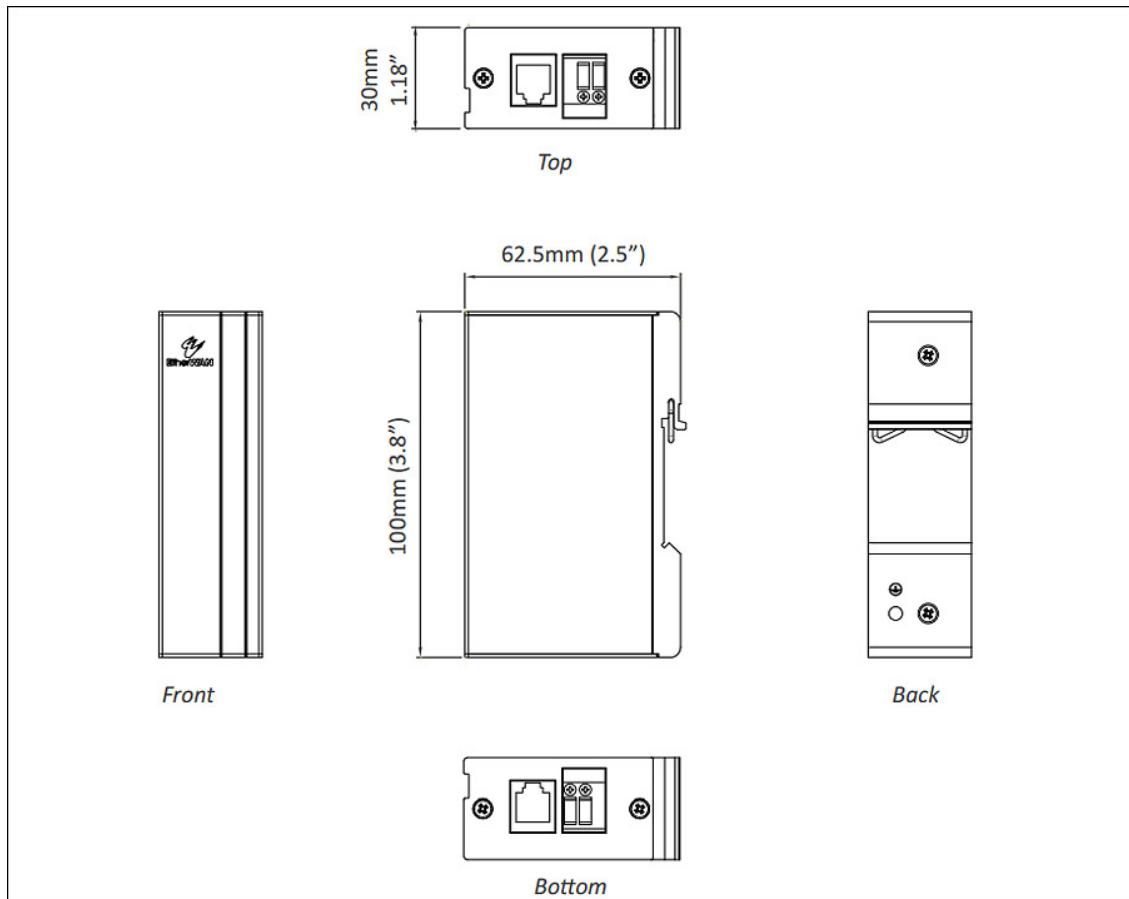
- **ISO**
 - Manufactured in an ISO 9001 facility
- **Safety**
 - UL 497B
- **EMI**
 - CE
 - FCC Part 15 Class B
 - VCCI
- **Industrial Compliance**
 - IEC 61643-21

Electrical

- **Maximum continuous operating voltage UC**
 - ?185VDC
- **Maximum continuous voltage UC (Wire-Wire)**
 - ?185VDC
- **Maximum continuous voltage UC (Wire-Ground)**
 - ?185VDC
- **Nominal current IN**
 - 2380mA (25°C)

- **Output voltage limitation at 1kV/?s (Core-Earth) spike**
 - ?250V
- **Residual voltage at In, (Conductor-Conductor)**
 - ?120V
- **Residual voltage at In, (Conductor-Ground)**
 - ?120V
- **Voltage protection level UP (Core-Core)**
 - ?300V (B2–100A)
 - ?300V (C1–500A)
 - ?300V (C2–5kA)
- **Voltage protection level UP (Core-Earth)**
 - ?300V (B2–100A)
 - ?300V (C1–500A)
 - ?300V (C2–5kA)
- **Response time tA (Core-Core)**
 - ?100ns
- **Response time tA (Core-Earth)**
 - ?100ns
- **Input attenuation aE, sym.**
 - Typ. 0.5dB (?5MHz)
 - Typ. 0.3dB (?8MHz/150?)
 - Typ. 0.3dB (?2.5MHz/600?)
- **Near-end crosstalk attenuation**
 - ?35dB (At 250MHz/100?)
- **Cut-off frequency fg (3dB), sym. in 100 Ohm system**
 - Typ. 50MHz
- **Resistance in series**
 - 3.3? ±10%
- **Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)**
 - B2 (4kV/100A)
 - C1 (1kV/500A)
 - C2 (10kV/5kA) (Terminal Block)
 - C2 (6kV/3kA) (RJ11)
- **Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)**
 - B2 (4kV/100A)
 - C1 (1kV/500A)
 - C2 (10kV/5kA) (Terminal Block)
 - C2 (6kV/3kA) (RJ11)
 - D1 (1kA)

Dimensions



Ordering Info

Model

PD3041

Hardened Surge Protection Device – RJ11 & Two Wire Terminal Block Type



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EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.