migrate-ed9.hellosanta.tw/products/pd1041 PD1041
PD1041
Hardened Surge Protection Device – RJ45

Overview

EtherWAN's PD1041 Hardened Surge Protection Device is designed to protect your EtherWAN Switch investment; however any Ethernet network device can be protected from dangerous electrical surges. Designed for harsh environments, the PD1041 can be placed where you need it to protect your valuable network equipment.

EtherWAN — "When Connectivity is Crucial."

Spotlight

Protection Solution Against Voltage Surge

» Provides pair-to-pair protection through RJ45 connector

Flexible Installation

» Supports DIN-rail or desktop installation

Wide Temperature Range

» Provides -40 to 75°C operating temperature range for extreme environments

Compatible with 10/100BASE-T, Gigabit and PoE products

» Pass-through Data and PoE Power

Specifications

Electrical

- **Maximum continuous operating voltage UC**
- • ?3.3VDC
-
- **Maximum continuous voltage UC (Wire-Wire)**
- • ?3.3VDC (±60VDC/PoE+)
-
- **Maximum continuous voltage UC (Wire-Ground)**
- • ?180VDC
-
- **Nominal current IN**
- • ?1.5A (25°C)
-
- **Operating effective current IC at UC**
- • ?1?A
-
- **Residual current IPE**
- • ?8?A
-
- **Nominal discharge surge current In (8/20) ?s (Core-Core)**
- • 100A
-
- **Nominal discharge surge current In (8/20) ?s (Core-Earth)**

- • 2kA (per signal pair)
-
- **Total surge current (8/20) ?s**
- • 10kA
-
- **Nominal pulse current Ian (10/700) ?s (Core-Core)**
- • ?40A
-
- **Nominal pulse current Ian (10/700) ?s (Core-Earth)**
- • ?160A
-
- **Output voltage limitation at 1kV/?s (Core-Core) spike**
- • ?85V (PoE)
-
- **Output voltage limitation at 1kV/?s (Core-Earth) spike**
- • ?700V
-
- **Output voltage limitation at 1kV/?s (Core-Core) static**
- • ?9V
-
- **Output voltage limitation at 1kV/?s (Core-Earth) static**
- • ?700V
-
- **Output voltage limitation at 100V/s (Core-Core)**
- • ?9V
-
- **Output voltage limitation at 100V/s (Core-Earth)**
- • ?300V
-
- **Output voltage limitation at 100V/?s (Core-Core)**
- • ?9V
-
- **Output voltage limitation at 100V/?s (Core-Earth)**
- • ?600V
-
- **Residual voltage at IN, (Conductor-Conductor)**
- • ?15V
- • ?100V (PoE)
-
- **Voltage protection level Up (Core-Core)**
- • ?9V (B2-1kV/25A)
- • ?100V (B2-1kV/25A-PoE)
- • ?15V (500V/100A)
-
- **Voltage protection level Up (Core-Earth)**
- • ?600V
- • ?700V (C2-4kV/2kA)
-
- **Response time tA (Core-Core)**
- • ?1ns
-
- **Response time tA (Core-Earth)**
- • ?100ns
-
- **Input attenuation aE, sym.**
- • 1dB (?250MHz)
-
- **Near-end crosstalk attenuation**
- • ?35dB (At 250MHz/100?)
-
- **Cut-off frequency fg (3dB), sym. in 100 Ohm system**
- • >500MHz

-
- **Capacity (Core-Core)**
- • typ. 5pF (f=1MHz/VR=0V)
-
- **Capacity (Core-Earth)**
- • typ. 2pF (f=1MHz/VR=0V)
-
- **Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)**
- • B2 (1kV/25A)
-
- **Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)**
- • B2 (4kV/100A)
- • C2 (4kV/2kA)
- • D1 (1kA)

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 ±5%
-
- **Installation**
- • DIN-Rail
-
- **Connection**
- • RJ45 Connector

Environment

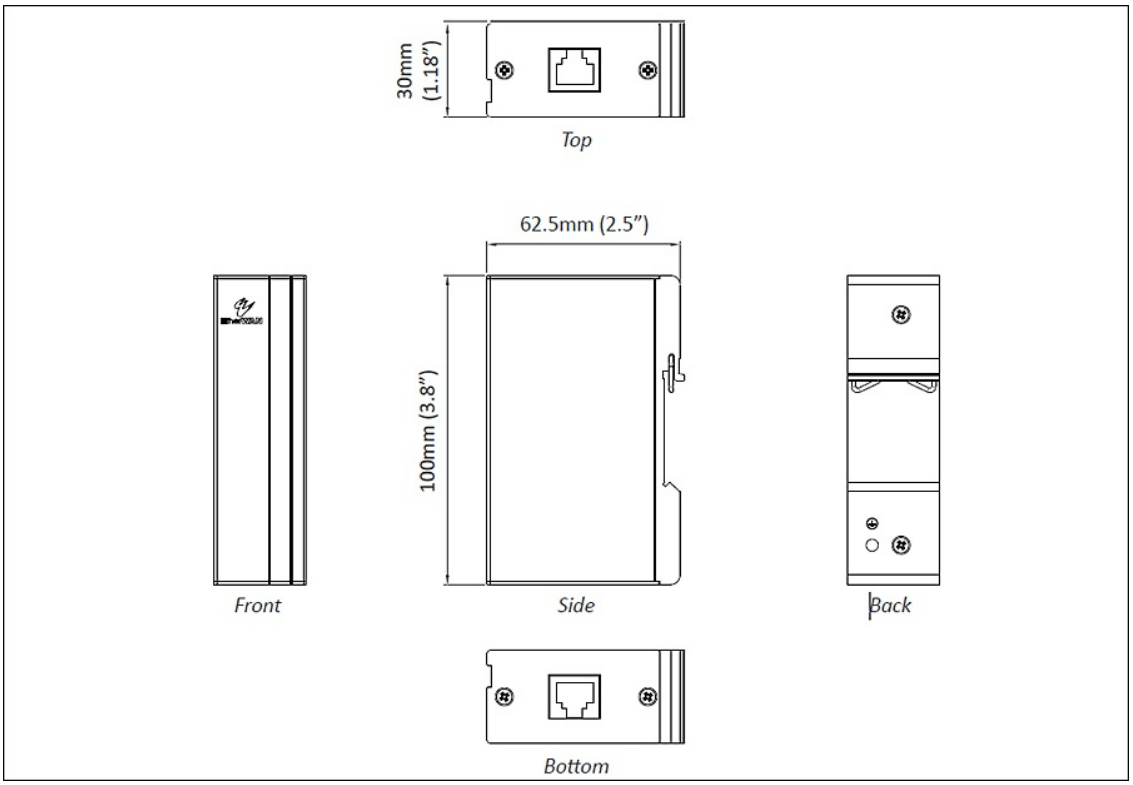
- **Operating Temperature**
- • -40 to 75°C (-40 to 167°F)
-
- **Storage Temperature**
- • -40 to 85°C (-40 to 185°F)
-
- **Ambient Relative Humidity**
- • 5% to 95% (non-condensation)

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

Dimensions



Ordering Info

Model

PD1041 Hardened Surge Protection Device – RJ45

* Note: Cat.6 cable is recommended.

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