

# PD1041

雙絞線/電話線 湧流保護器



## 產品介紹

益網科技的 PD1041 強固級雙絞線/電話線湧流保護器相容於 10/100/1000BASE-T 和 PoE，可透過 RJ45 連接器提供線對保護，可以讓您的乙太網路系統設備免受危險電湧的影響。PD1041 專為惡劣嚴苛條件下的網路環境而設計，可以安裝在您的網路設備環境，進一步以保護您寶貴的網路設備。

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### + 電壓突波保護解決方案

透過 RJ45 連接器提供線對保護

### + 寬工作範圍

為極端氣候環境提供 -40 至 75°C 的工作溫度範圍

### + 有彈性的安裝方式

支援 DIN 導軌式安裝或桌面安裝

### + 相容於 10/100BASE-T、Gigabit 和 PoE 產品

提供資料和 PoE 電源通過

## 產品規格

## + 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

## + 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

≤1μA

### Residual current IPE

≤8μA

### Nominal discharge surge current In (8/20) μs (Core-Core)

100A

### Nominal discharge surge current In (8/20) μs (Core-Earth)

2kA (per signal pair)

### Total surge current (8/20) μs

10kA

### Nominal pulse current Ian (10/700) μs (Core-Core)

≤40A

### Nominal pulse current Ian (10/700) μs (Core-Earth)

160A

### Output voltage limitation at 1kV/μs (Core-Core) spike

≤85V (PoE)

### Output voltage limitation at 1kV/μs (Core-Earth) spike

≤700V

### Output voltage limitation at 1kV/μs (Core-Core) static

≤9V

### Output voltage limitation at 1kV/μs (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/μs (Core-Core)**

≤9V

**Output voltage limitation at 100V/μs (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/100Ω)

**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)

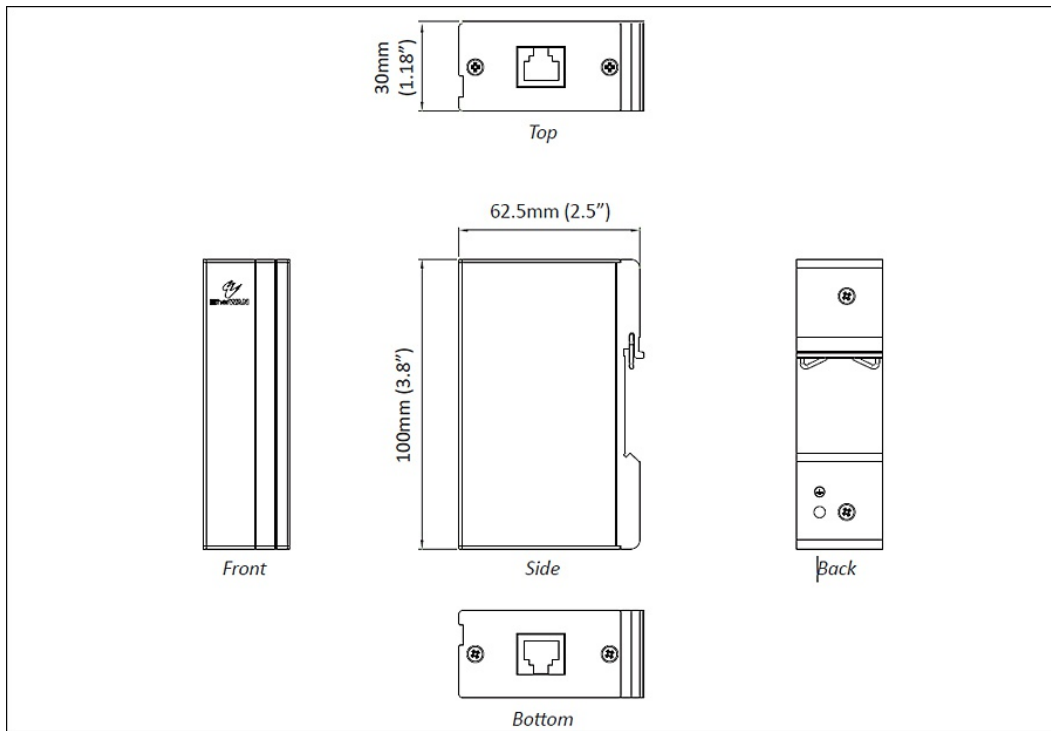
**Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)**

B2 (4kV/100A)

C2 (4kV/2kA)

D1 (1kA)

## 產品尺寸圖



## 訂購型號

### + Model

**PD1041** Hardened Surge Protection Device – RJ45

\* Note: Cat.6 cable is recommended.

