



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Ethernet

## Power Over Ethernet (PoE)

### Solution Products



CDNBS08-PLC03-3.3



CDNBS04-B08200



SMBJ58A



MF-SMDF050

### Design Kit



PN-DESIGNKIT 2

### Objective

Power over Ethernet (PoE) interfaces combine two Vp-p differential signals and nominal 48 VDC power. This solution provides protection for both the data and power signals.

### Solution

- 2 TVS Diode Arrays: CDNBS08-PLC03-3.3
- 2 Rectifier Diode Arrays: CDNBS04-B08200
- 1 Discrete TVS Diode: SMBJ58A
- 1 Multifuse® PTC: MF-SMDF050

### Compliance

IEEE802.3af and IEEE802.11af  
IEC 61000-4-2 Level 4 (8 kV / 15 kV)

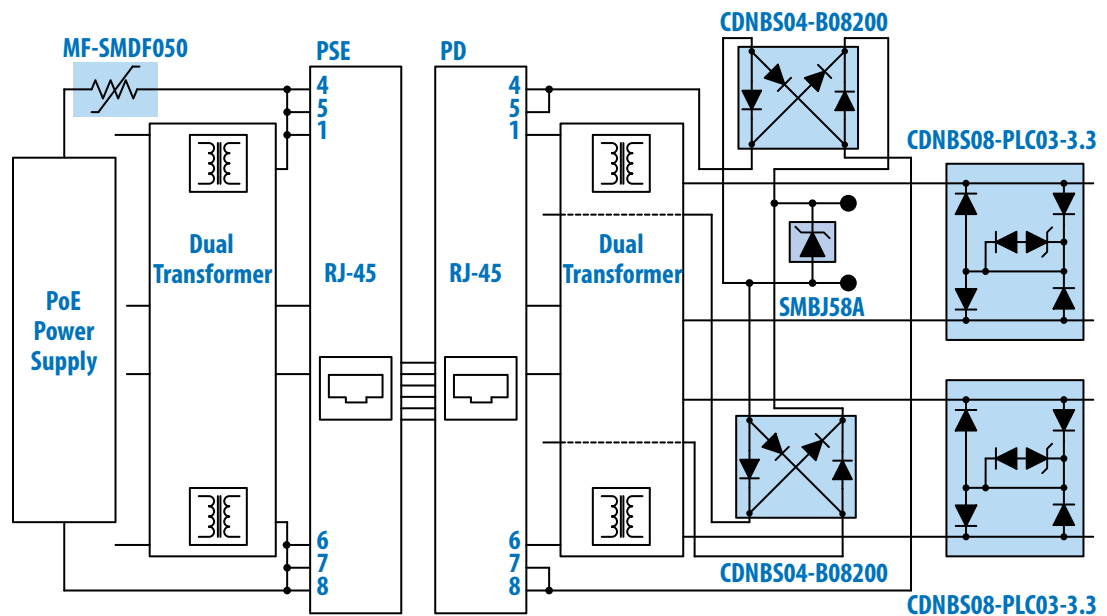
### Alternate Recommendations

Other PortNote™ Solutions:

- Ethernet - ESD Protection
  - Ethernet - Power Contact and Surge Protection
- Contact Bourns for PoE+ or Gbit PoE ports.

### Benefit

This solution provides protection for PoE without impairing the Ethernet signal.



The schematic above illustrates the application protection and does not constitute the complete circuit design. Customers should verify actual device performance in their specific applications.