

## 55 Watt 1GB Indoor Power Over Ethernet Injector Model CPU55A-112

The CPU55A-270-1 is a 1GB P.O.E (Power Over Ethernet) Injector, combined data and power adapter that interfaces to the customer's wireless modem and other Link and Network outdoor products. The unit provides an RJ-45 input connector, that is connected to 1 GB transformers for connection to an IEEE 802.3 (1 GB) compatible device. The unit receives power from 100V to 240V using an industry standard IEC320C14 connector. An output RJ45 connector provides the 1GB data and 55V or other voltages for connection to the wireless modem, use of all 8 pins to carry the Data and 2 pairs for the power to the Radio terminal.

### Main Features

- Option for easy installation on wall
- Compact size – 160 x 63 x 32 mm
- High efficiency – free convection cooling
- Wide-range input voltage covering worldwide requirements
- Full output protection OCP. SC. OVP
- Meets FCC 15 & EN55022 class B requirements
- Operating temperature range -20° C to +45° C with no derating
- CE, FCC,CB,TUV(US) ,PSE approved

### Typical Applications

- Power Over Ethernet
- Fast data modems
- Wireless modems
- 1 GB systems
- Video / Data / Voice modems

### Main Specifications

#### Input

- 90 to 265VAC (wide range)
- Input frequency 47 – 63Hz
- Input inrush current 50A@ cold start
- Input reflected ripple per FCC part 15 & EN55022 class B
- Input cable 3 poles , IEC320C14

#### Output

- Output voltage: 55VDC or 48VDC
- Output current: 0 – 1 A
- Efficiency: 85% minimum
- Voltage regulation -  $\pm 2\%$  Max. For load and line variation
- Temperature coefficient – 0.05% / C max
- Voltage set point – Internal trim-pot  $\pm 5\%$
- Hold-up time – 10 m Sec minimum at full load including 100V input
- Isolation – input/output, input/case >3000VAC
- Protection – output protected against overload, short-circuit and over voltage
- Surge protection – on DC and data lines





## Outputs Connection

### RADIO-RJ-45

Pin 1, Data  
Pin 2, Data  
Pin 3, Data  
Pin 4, Data , +55V  
Pin 5, Data , +55V  
Pin 6, Data  
Pin 7, Data , -55V  
Pin 8, Data , -55V

### Ethernet RJ-45

Pin 1, Data  
Pin 2, Data  
Pin 3, Data  
Pin 4, Data  
Pin 5, Data  
Pin 6, Data  
Pin 7, Data  
Pin 8, Data

Output: 55V/1.0A

Pin 4,5 +55V

Pin 7,8 Return

## Warranty

Two (2) years manufacture's warranty

