

# **55 Watt 1GB Indoor Power Over Ethernet Injector Model CPU55A-**270

The CPU55A-270 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 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

- 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 ±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





### **Environmental**

- Operation temperature range -20°C to +55°C
- Storage temperature range -45°C to +85°C
- EMI / RFI Meets EN55022 class B requirements & IEC-1000 requirements.
- MTBF Higher than 200,000 hour

# Safety & EMC

- Safety referring Standards:
  - o UL/CUL UL1950-1 Second Edition
  - CE EN 60950-1 Second Edition
  - AS/NZS AS/NZS 3260
- EMC referring Standards:
  - ETSI EN 301 489-1 V1.4.1 (2002-08)
  - ETSI EN 301 489-4 V1.3.1 (2002-08)
  - o ETSI EN 301 489-17 V1.2.1 (2002-08)

#### • Emission

- FCC Part 15, class B.
  CE (Radiated & Conducted Emission) EN55022 Class B
  Harmonic EN61000-3-2
  Voltage Fluctuation EN61000-3-3
  VCCI Level 2
  AS/NZS AS/NZS 3548
- Immunity

٠	ESD	EN61000-4-2
٠	Radiated Immunity	EN61000-4-3
٠	EFT	EN61000-4-4
٠	Surges	
	EN61000-4-5 Class 3	
٠	Voltage tips, short interruption	EN61000-4-11

## Mechanical

- Size 160 L x 63 W x 32 H mm
- Weight 200gr. Max
- Cooling free convection
- Input AC 3 pin AC inlet IEC320C14 (cable not included)

# **Reliability**

• MTBF

200,000 Power On Hours at 55W load and 45°C environment, computed according to MIL-HDBK-217F, Ground Fixed conditions, using the parts stress method

• Burn-In

100% Burn-In with 80-100% load & 45°C environment temperature for 8 hours minimum



#### **Outputs Connection**

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Output 1: 55V/0.5A Pin 1,2 Return Pin 3,6 +55V

Output 2: 55V/0.5A Pin 4,5 +55V Pin 7,8 Return

#### Warranty

Two (2) years manufacture's warranty

