

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

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 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 ±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:

UL/CUL
 UL1950-1 Second Edition
 CE
 EN 60950-1 Second Edition

o 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)
 ETSI EN 301 489-17 V1.2.1 (2002-08)

Emission

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

Immunity

ESD
 Radiated Immunity
 EFT
 EN61000-4-3
 EN61000-4-4

Surges

EN61000-4-5 Class 3

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

RADIO-RJ-45

Pin 1, Data , +55V Pin 2, Data , +55V Pin 3, Data , -55V Pin 4, Data , +55V

Pin 5, Data , +55V Pin 6, Data , -55V

Pin 6, Data , -55V Pin 7, Data , -55V

Pin 8, Data , -55V

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

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

Warranty

Two (2) years manufacture's warranty

