

35 Watt DC 1GB Power Over Ethernet outdoor Adapter CPG35-111

The CPG35-111 is a wide range DC input ,extended temperature 1GB P.O.E

(Power Over Ethernet) combined data and power adapter that interfaces to the customer's wireless modem and other Link and Net outdoor products.

DC input voltage range is 10 TO 60V . operation Temperature range is -40 to +70 $^{\circ}$ C

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 DC INPUT power from 10V to 60V using a standard 3pins connector. An output RJ45 connector provides the 1GB data and 48V or other voltages for connection to the wireless modem ,use of 4 PAIRS 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
- Input reverse polarity protection
- Full output protection OCP. SC. OVP
- Meets FCC 15 & EN55022 class B requirements
- Operating temperature range -40° C to +70° C with no derating
- CE, TUV approved

Typical Applications

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

Main Specifications Input

- 10 to 60VDC (wide range)
- Input inrush current 80A@ cold start
- Input reverse polarity protection
- Input reflected ripple per FCC part 15 & EN55022 class B
- Input connector 3 poles



- Output voltage: 48VDC
- Output current: 0 0.63 A
- Efficiency: 80% minimum
- Voltage regulation $\pm 2\%$ Max. For load and line variation
- Temperature coefficient 0.05% / C max
- Voltage set point Internal trim-pot ±5%
- Isolation input/output 1500Vdc





- input/case >1500Vdc
- Output /case >500Vdc
- Protection output protected against overload, short-circuit and over voltage
- Surge protection on DC and data lines

Environmental

- Operation temperature range -40°C to +70°C
- Storage temperature range -45°C to +80°C
- EMI / RFI Meets EN55022 class B requirements & IEC-1000 requirements.
- MTBF Higher than 200,000 hour

Safety & EMC

• Safety referring Standards:

TUV UL1950-1 Second Edition
 CE EN 60950-1 Second Edition

• EMC referring Standards:

o ETSI EN 301 489-1 V1.4.1 (2002-08)

o ETSI EN 301 489-4 V1.3.1 (2002-08)

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

Emission

o FCC Part 15, class B.

CE (Radiated & Conducted Emission)
 Harmonic
 EN55022 Class B
 EN61000-3-2

o Voltage Fluctuation EN61000-3-3

Immunity

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 220gr. Max
- Cooling free convection
- Input DC 3 pin CONNECTOR

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	Ethernet RJ-45
Pin 1, Data ,	Pin 1, Data
Pin 2, Data ,	Pin 2, Data
Pin 3, Data ,	Pin 3, Data
Pin 4, Data , +48V	Pin 4, Data
Pin 5, Data , +48V	Pin 5, Data
Pin 6, Data ,	Pin 6, Data
Pin 7, Data , - 48V	Pin 7, Data
Pin 8, Data , - 48V	Pin 8, Data

Output: 48V/0.63A Pin 4,5 +55V Pin 7,8 Return

Warranty

Two (2) years manufacture's warranty





