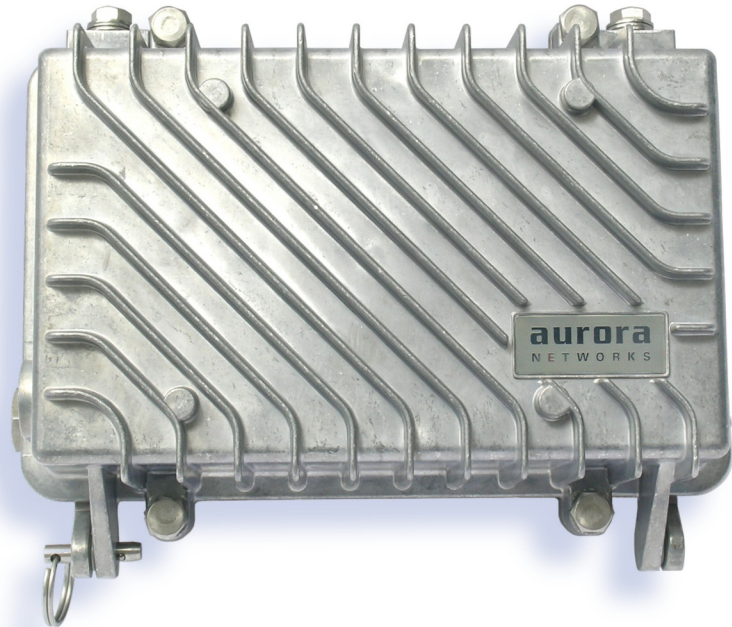


## Features

- n DOCSIS 1.1 and 2.0
- n 10/100 auto-negotiating Ethernet port
- n Common RF/powering port
- n 40 to 100 V<sub>rms</sub> AC power supply
- n Delivers up to 38 watts Power over Ethernet
- n Pedestal or strand mounting
- n RF and DC test points
- n Pad for RF attenuation
- n Built-in visual indicators

## Power Gateway Platform for Wireless Backhaul Applications (with Integrated DOCSIS Cable Modem)



Aurora Networks' PG1010 Power Gateway Platform is designed to support a variety of wireless architectures. Its compact and rugged design includes a DOCSIS cable modem, network-powered -48 Vdc power supply and Power over Ethernet output.

This flexible platform accommodates a wide range of outdoor radio platforms with its unique combination of outdoor cable modem and robust radio powering capability.

# PG1010

## Product Specifications

### Physical:

- Dimensions: 10.2" L x 7.7" W x 5.4" H (25.9 cm x 19.6 cm x 13.7 cm)
- Weight: 8.1 lbs (3.7 kg)
- Housing ports: 1 AC/RF port and 1 PoE port

### Environmental:

- Operating temperature range:  $-40^{\circ}$  to  $+65^{\circ}\text{C}$  ( $-40^{\circ}$  to  $149^{\circ}\text{F}$ )
- Storage temperature range:  $-40^{\circ}$  to  $+85^{\circ}\text{C}$  ( $-40^{\circ}$  to  $185^{\circ}\text{F}$ )
- Humidity: 5% to 95% non-condensing

### Power Requirements:

- Operating input voltage: 40 to  $100 V_{\text{RMS}}$  (47 to 63 Hz quasi-square wave)
- Power supply startup input voltage:  $36 \pm 3 V_{\text{RMS}}$
- Power supply turn-off input voltage: 30 to  $36 V_{\text{RMS}}$
- Power supply efficiency at full load: > 85%
- Power consumption: 48 W max, 10 W min

### PoE Output:

- Output voltage:  $-48.0 \pm 1 \text{ Vdc}$
- Output power: 38 W
- Output current, maximum operating: 0.79 A
- Over-voltage protection set point:  $-58.9$  to  $-65.1 \text{ Vdc}$
- Short circuit protection: Continuous

### Cable Modem Specifications

#### Downstream RF:

- Modulation type: ITU-T J.83 Annex B
- Channel info bit rate:
  - 256 QAM: 43 Mbps
  - 64 QAM: 38 Mbps
- Channel bandwidth: 6 MHz
- Receive center frequency, range: 91 to 857 MHz
- Standard, HRC, IRC channels
- Input level:  $-10$  to  $+16 \text{ dBmV}$
- User interface: Pad for RF attenuation
- Input:  $75 \Omega$

#### Upstream RF:

- Modulation: QPSK, QAM 8, 16, 32, 64 and 128
- Channel access: TDMA, S-CDMA
- Channel transmission rate: 0.32 to 10.24 Mbps
- Channel bandwidth: 0.2 to 6.4 MHz
- Transmit frequency range: 5 to 42 MHz
- Output power: 5 to 55 dBmV

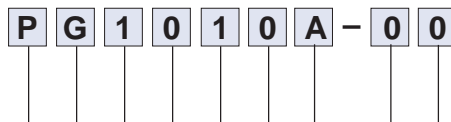
#### Local Test Point Facilities

- On PS1048 Power Supply:  $-48 \text{ Vdc}$  and AC voltage
- On PM1002 DOCSIS Power Module:  $-48 \text{ Vdc}$  and  $-20\text{dB RF}$

#### Status LEDs on PM1002 DOCSIS Module:

- Power, Ethernet Link, DOCSIS Link, Cable

## Ordering Information



The primary configuration of the PG1010A Power Gateway includes the NH1000W housing with one AC/RF port and one PoE port, one model PS1048 power supply and one model PM1002 DOCSIS Power Module. Standard CAT-5 outdoor-rated service cables may be ordered separately to connect the PG1010A with outdoor radio units.



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