Features
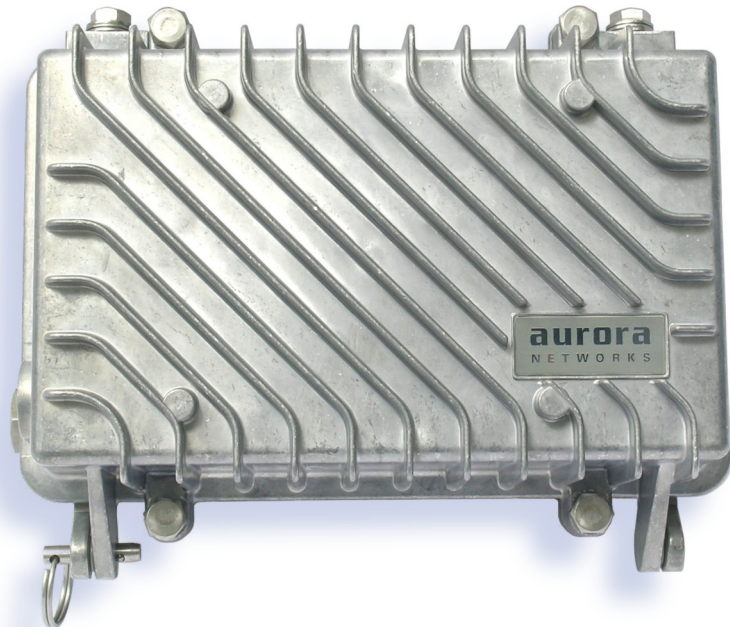
- Two 10/100Base-TX auto-negotiating Fast Ethernet PoE ports

- One 2.125 Gbps fiber network port (supporting 10 or 40 km fiber link lengths with plug-in transceiver modules)

- 40 to 100 V_{rms} AC power supply

- Delivers up to 43 watts Power over Ethernet

- Pedestal or strand mounting

- Built–in visual indicators (LEDs)

- Monitoring and management via serial interface craft port for local monitoring with Aurora's Opti-Trace CMS, and remote monitoring with Aurora's Opti-Trace EMS

Power Gateway Platform
for Wireless Backhaul Applications
(with Integrated Fast Ethernet Transceiver)

Wireless Backhaul Equipment

Aurora Networks' PG1110 Power Gateway Platform is designed to support a variety of wireless architectures. Its compact and rugged design includes Aurora's 2.125 Gbps optical Ethernet port (configured with an SFP transceiver), network-powered –48 Vdc power supply and two Power over Ethernet ports.

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

A built-in serial interface craft port offers local management via Aurora's Opti-Trace CMS. Extended remote status and performance monitoring capability are provided when used with Aurora's Opti-Trace EMS.

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: 8.4 lbs (3.8 kg)

- Housing ports: 1 AC port, 2 PoE ports, and 1 fiber port

Environmental:

- Operating temperature range: –40º to +65ºC (–40º to 149ºF)

- Storage temperature range: –40º to +85ºC (–40º to 185ºF)

- Humidity: 5% to 95% non–condensing

Power Requirements:

- Operating input voltage: 40 to 100 V_{RMS}
  (47 to 63 Hz quasi-square wave)

- Power supply startup input voltage: 36 ± 3 V_{RMS}

- Power supply turn-off input voltage: 30 to 36 V_{RMS}

- Power supply efficiency at full load: > 85%

- Power consumption: 48 W max, 5 W min

PoE Output:

- Output power: 43 W (total available for both PoE ports)

- Output voltage: –48.0 ± 1 Vdc

- Output current, maximum operating: 0.9 A

- Over-voltage protection set point: –58.9 to –65.1 Vdc

- Short circuit protection: Continuous

PoE Port Interface:

- Connector: RJ-45

- Supported link length: 90 m

- Cable type (10 or 100 Mbps segments): CAT5

- Auto-negotiation / Auto-MDIX support

Single-mode Fiberoptic Port Interface:

This 2.125 Gbps fiber network port is implemented with a plug-in (SFP) transceiver installed in the PM1003 Broadband Power Module. The wavelength, output power and supported link length are a function of the selected SFP transceiver. Please refer to the applicable data sheet for detailed specifications. Following is a summary of available transceiver options (model numbers and brief descriptions) for these ports.

- TR4000-PI (transmit at 1310nm for links up to 10 km)

- TR4040-PI (transmit at 1310nm for links up to 40 km)

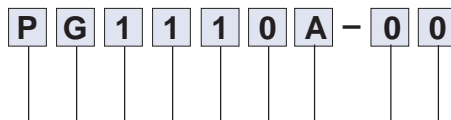- TR4540-0000-PI (transmit at 1550nm for links up to 40 km)

Local Test Point Facilities

- On PS1048 Power Supply:

  - –48 Vdc

  - AC voltage

LED Indicators

- On PM1003 Broadband Power Module:

  - Power (primary)

  - Tx / Rx (Duplex LC connector on SFP transceiver)

  - 100M (operational status for each of 2 PoE ports)

  - Link (activity for each of 2 PoE ports)

Ordering Information

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Power Gateway Platform

The primary configuration of the PG1110A Power Gateway includes the NH1000A housing with one AC port, two PoE ports, one fiber port; one model PS1048 power supply, and one model PM1003 Broadband Power Module. SFP plug-in modules must be ordered separately. Standard CAT5 outdoor-rated service cables may be ordered separately to connect the PG1110A with outdoor radio units.

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