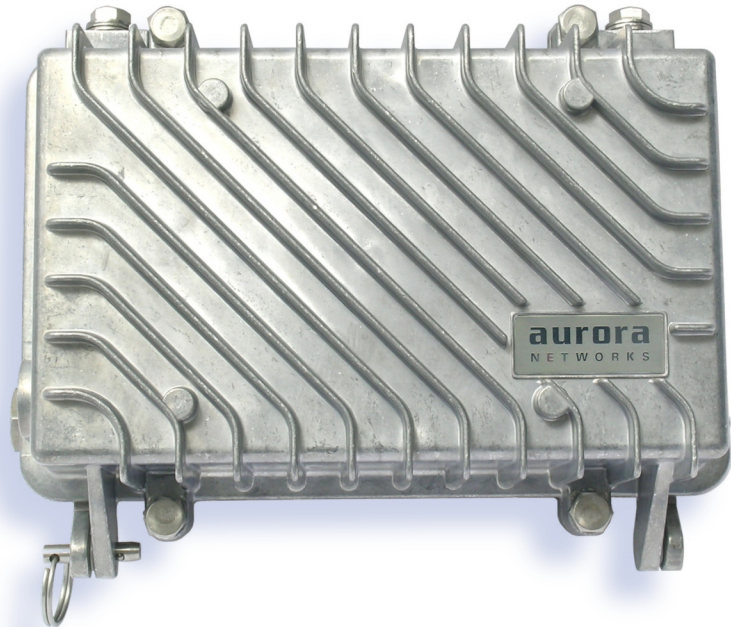


Features

- Two 10/100Base-TX auto-negotiating Fast Ethernet PoE ports
- One 100Base-FX Fast Ethernet fiber port (configurable with a variety of CWDM SFP transceivers)
- 15 CWDM wavelengths available (1270 to 1350 and 1430 to 1610 nm, in 20 nm increments), ITU-grid compliant (G.694.2)
- Supports minimum 60 km fiber link length
- 40 to 100 V_{rms} AC power supply
- Delivers up to 40 watts Power over Ethernet
- Pedestal or strand mounting
- Built-in visual status indicators (LEDs)
- Serial interface craft port for status monitoring and management with Aurora's Opti-Trace CMS

www.aurora.com

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



Aurora Networks' PG1210 Power Gateway Platform is designed to support a variety of wireless architectures. Its compact and rugged design includes a 100Base-FX optical Ethernet port that may be configured with an SFP plug-in transceiver for transmission at any of 15 wavelengths on the standard CWDM (ITU G.694.2) grid, 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 an integrated outdoor CWDM media converter and robust power over Ethernet capability.

PG1210

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: 8.4 lbs (3.8 kg)
- Housing ports: 1 AC port, 2 PoE ports, and 1 fiber port

Environmental:

- Operating temperature range: -40° to $+65^{\circ}\text{C}$ (-40° to 149°F)
(The PM1004 Power Module includes an internal heater for proper operation of SFP transceivers at lower temperatures.)
- Storage temperature range: -40° to $+85^{\circ}\text{C}$ (-40° to 185°F)
- 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: $36 \pm 3 V_{\text{RMS}}$
- Power supply turn-off input voltage: 30 to 36 V_{RMS}
- Power supply efficiency at full load: > 85%
- Power consumption (with PS1048): 48 W max, 8 W min

PoE Output:

- Output power: 40 W (total available for both PoE ports)
- Output voltage: $-48.0 \pm 1 \text{ Vdc}$
- Output current, maximum operating: 0.83 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 125 Mbps fiber network port is implemented with a plug-in (SFP) transceiver operating at 1 of 15 available CWDM wavelengths. Please refer to the applicable data sheet for TFCxxx-TL29 series CWDM Optical Transceiver Modules for complete specifications.

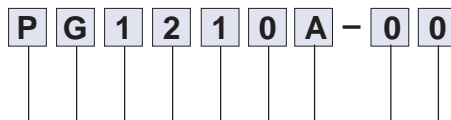
Local Test Point Facilities

- On PS1048 Power Supply:
 - -48 Vdc
 - AC voltage

LED Indicators

- On PM1004 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



The primary configuration of the PG1210A Power Gateway includes the NH1000A housing with one AC port, two PoE ports, one fiber port, one model PS1048 power supply, and one model PM1004 Broadband Power Module. CWDM SFP plug-in modules must be ordered separately. Standard CAT5 outdoor-rated service cables may be ordered separately to connect the PG1210A with compatible Ethernet devices.



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