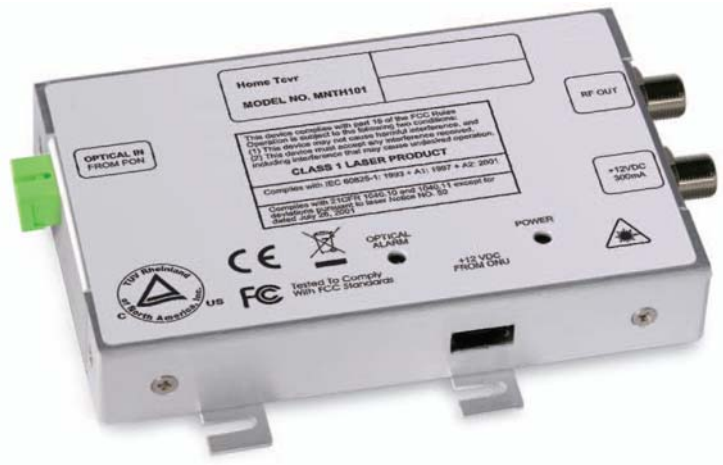
aurora NETWORKS

MNTH101

RFPON Transceiver CPE

Features

- CPE units designed to support emerging RFoG standard
- Enables seamless provisioning of FTTP solutions (and ideal for new housing development applications)
- Indoor or outdoor mounting (with a special enclosure), providing operational flexibility
- Designed to interoperate with incumbent cable modem and set-top box technology
- External alarm indicators to simplify operation
- Powered via standalone 12V_{DC} power source



To support MSOs in the deployment of end-to-end Fiber to the Premises (FTTP) networks, Aurora Networks offers a family of NIU transceivers. Designed to seamlessly interoperate with our proven RF transport product line, these devices are customized for MSOs as they extend service offerings over fiber into new residential, business park and multi-dwelling unit markets. This family of products supports RF over Glass (RFoG) and/or standard PON-based applications. As a result, MSOs can roll out advanced fiber to the home networks without changing the integrity of their headend or back-office technology and procedures.

Aurora's RFPON transceivers for the home enable cost-effective provisioning of full interactive video, voice, and data services over an FTTP network. These CPE units support any RFoG solution that uses standard industry wavelengths to and from the premises, transporting RF video and the MSO's incumbent DOCSIS® cable modem traffic. These units support the full two-way services currently provided over RF frequencies already deployed by MSOs today.

Aurora Networks is committed to providing full end-to-end solutions to MSOs as they roll-out next-generation network architectures, and these CPE devices are integral to our solution.

MNTH101 Product Specifications

Physical:

- Dimensions:

  5.0” D x 1.2” H x 3.5” W (12.7 cm x 3.0 cm x 8.9 cm)
- Weight: 1.0 lb (0.45 kg)

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:

- Input voltage: +12 V_{DC} nominal (from wall adapter or UPS, see Ordering Information)
- Power consumption: 3.0 W

Connectors:

- Optical interface: Recessed SC/APC female fiber connector
- Customer interface: 75 ohm coax “F” connector
- Powering interface: “F” connector

Downstream:

- Input wavelength: 1525–1565 nm
- Input power range: 0 to –6 dBm
- LOS alarm threshold: –12.5 dBm
- RF output @ 550 MHz: +18 dBmV/ch ±2 dBmv
- Frequency response: 50 MHz to 1.1 GHz
- Tilt (50MHz–1.1GHz): 3 dB
- CNR: 48 (@ –6dBm input power)
- CSO: 60 (@ 0dBm input power)
- CTB: 65 (@ 0dBm input power)

Return Path:

- Transmission wavelength: 1310nm ±50nm
- Output power: > 0dBm
- RF input dynamic range: +15 dBmv to +40 dBmV
- Frequency response: 5 MHz to 42 MHz
- Compatible with DAVIC™ and DOCSIS®

Status Indicators:

- Power indicator: Green LED
- LOS indicator: Red LED

Standards and Certifications:

- TUV listed, CE mark certified
- Meets or exceeds FCC Part 15b
- IEC 60825-1:1993+A1:1997+A2:2001

Mounting:

Direct mounting on an interior wall. Contact your Aurora representative regarding enclosures for other indoor/outdoor mounting options.

Ordering Information

M	N	T	H	1	0	1

RFPON Transceiver, 1550/1310

Powering Options

Equipment to power the RFPON transceiver must be ordered separately. Either of the following items may be ordered to power the unit.

P	S	B	1	0	0	7

Power Supply, UL-approved 12V AC Wall Adapter with F-connector

P	S	B	8	0	0	2

Power Supply, Rugged, 12V APC with 7.2 AHR UPS

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