Features

- **GEPON interface with SC type connector (IEEE 802.3ah)**

- **1490nm downstream, 1310nm upstream**

- **MDI/MDI-X 10/100/1000 Mbps LAN port compliant with IEEE 802.3/u/ab**

- **Fully compliant with IEEE 802.3ah**

- **IEEE 802.1Q VLAN**

- **Broadcast Control**

- **Supports remote control from OAM channel, data loopback tests, and remote firmware upgrades**

GEPON CPE

The ONU-631HA GEPON unit for customer premises provides an off-the-shelf, truly plug-and-play terminus for Aurora Networks' Gigabit Ethernet Node PON™ module (the GE4132M, which can be installed in any Aurora Networks NC4000 series optical node or VHub to support delivery of 1,000 Mbps bi-directional Ethernet over fiber).

The ONU-631HA provides one fiber and one Gigabit Ethernet port and requires no setup configuration to begin operation. (Any further desired device configuration may be done remotely.) The unit is provided with accessories that include a Cat5 RJ-45 Ethernet cable, EMI suppressor, and an external power adapter (compatible for the global region in which the unit will be used).

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.

Access Services Equipment

Physical:

- Dimensions:

  7.4" W x 4.7" D x 1.2" H (18.8 cm x 12.0 cm x 3.0 cm)

- Weight: 1.1 lb (0.5 kg)

Environmental:

- Operating temperature range: 0° to $+50^\circ$C ($+32^\circ$ to $+122^\circ$F)

- Storage temperature range: 0° to $+50^\circ$C ($+32^\circ$ to $+122^\circ$F)

- Humidity: 5% to 95% non–condensing

Power Requirements:

- Input voltage: +12 V_{DC} nominal (from power adapter, see Ordering Information)

- Power adapter consumption: 18 W max

Connectors:

- Optical GEPON interface: Recessed SC/APC female fiber connector (IEEE 802.3ah)

- Customer LAN interface: Auto MDI/MDI-X 10/100/1000 Mbps RJ-45 port (compliant with IEEE 802.3/u/ab)

- Powering interface to wall adapter: Mini RCA jack

Optical:

- Wavelength:

  Downstream (input): 1490 nm

  Upstream: 1310 nm

- Distance: 10 km (1000BASE-PX-10)

Standards and Certifications:

- CE-EMC Class B

- Meets or exceeds FCC Part 15b

- Meets CSA-International safety standards

- VCCI Class B

Network Management and Support:

- IEEE 802.3ah

- IEEE 802.3/3u/3x

- IEEE 802.1x port authentication

- IEEE 802.1x AES algorith with 128-bit encryption key

- IEEE 802.1q VLAN (tag-based and port-based)

- Broadcast control

- Supports OAM or data loopback test

- Supports remote control from OAM channel
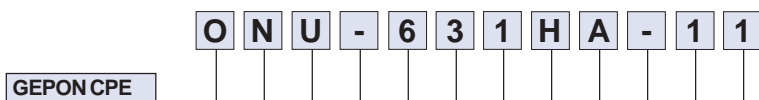
- Remote firmware upgrade

Status Indicators:

- POWER: Green LED lit when receiving power and ready

- PON: Green LED lit when connection to optical network is up

- LAN: Green LED lit when LAN port is connected to an Ethernet device

- SPEED: LED is lit and green when LAN port is connected at 1000 Mbps; LED is lit and amber when LAN port is connected at 100 Mbps

- DUPLEX: LED is lit and green when Ethernet connection is operating at full duplex mode; LED is off when Ethernet connection is operating at half-duplex mode (or the connection is down)

Mounting:

Wall-mountable on an interior wall

Ordering Information

GEPON CPE	O	N	U	-	6	3	1	H	A	-	1	1

Power Adapter

A UL-approved power adapter is provided with each ONU-631HA-11. The adapter accepts a 100-240 VAC 50/60Hz input and provides a 12.0V (1.5A) output for the GEPON unit. The power adapter for North America is identified as follows. Adapters are also available for other areas of the world and are included as appropriate.

M	U	1	8	–	2	1	2	0	1	5	0	–	A	1

aurora
N E T W O R K S

Corporate Headquarters
5400 Betsy Ross Drive
Santa Clara, CA 95054
Tel 408.235.7000
Fax 408.845.9045