Features

- **Customer Premise (CPE) device with convenient 100BaseT Ethernet handoff**

- **Layer 1 transport device, transparent to Layer 2 and higher protocols, including IEEE 802.1P, 802.1Q, 802.3u, VLAN, ToS**

- **Network demarcation device, remotely managed via SNMP, including firmware upgrades, by NI30x0 device at headend**

- **Electrically isolates return path, preventing ingress**

- **Channelized end-to-end via TDM for a very high degree of security**

- **Very low latency (<1 ms)**

- **Compact size for wall or desktop mounting**

Ethernet Access Device

The OE11x0 Ethernet Access Device is an optical transceiver that interfaces the business customer's LAN to Aurora's transport network. Available in 10km or 40km models, it serves as a highly manageable and extremely useful network demarcation point for operators. With its 100BaseT port, it provides a useful handoff to the business customer and leverages existing investments in Layer 2/Layer 3 routers and switches.

Each OE11x0 provides a full duplex, wirespeed, symmetric, dedicated, and completely independent 100Mbps connection to a business customer and includes one full duplex optical port and one 100BaseT port.

The OE11x0 is a Layer 1 transport device and is fully transparent to Layer 2 and higher protocols. Higher layer functionalities and external value added applications such as VLAN tagging are preserved and passed through. Traffic is channelized end-to-end via TDM, enabling a very high degree of security.

The field-hardened OE11x0's compact size simplifies installation on the desktop or mounting on a wall. It is supplied with a 12 VDC transformer that may also be wall-mounted.

Access Services Equipment

Physical:

- Dimensions:

  4" D x 1.125" H x 3.625" W (10 cm x 2.9 cm x 9.2 cm)
- Weight:

  0.6 lbs (0.3 kg)

Environmental:

- Operating temperature range: 0º to +45ºC (32º to 113ºF)
- Storage temperature range: –40º to +85ºC (–40º to 185ºF)
- Humidity: 5% to 95% non–condensing

Power Requirements:

- 500 mA at 12 V_{DC}
- Power consumption:
  - Model OE1110: 6.0 W
  - Model OE1140: 7.6 W

General:

- Optical and electrical interfaces
  - CAT 5 cabling interface: RJ-45
  - Optical: LC Duplex
- Optical transmission bit rate: 2.125 Gbps
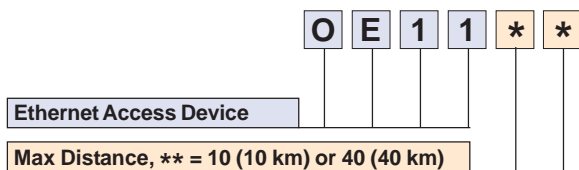
Desktop- or wall-mounted

Optical:

Typical specifications for two models with differing link loss budgets:

	Model:	OE1110	OE1140
• Laser:		Uncooled Fabry-Perot	Uncooled DFB
• Input			
• Wavelength range (nm):		1270 to 1600	1270 to 1600
• Input return loss (dB):		12	12
• Receiver power (dBm):		–3 to –18	–3 to –18
• Output			
• Wavelength range (nm):		1275 to 1350	1275 to 1350
• Transmitter power (dBm):		–11 to –3	–5 to 0
• Link loss budget (including fiber, dB):		7	12.5
• Max distance (over SMF-28 cable, km):		10	40

Electrical:

- Compliant with IEEE 802.1P, 802.1Q, 802.3u, VLAN, ToS

Ordering Information

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Ethernet Access Device

Max Distance, ∗∗ = 10 (10 km) or 40 (40 km)

AC Adapter is included with ordered module.

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