

# Example of Economical Comparison of 10G Devices

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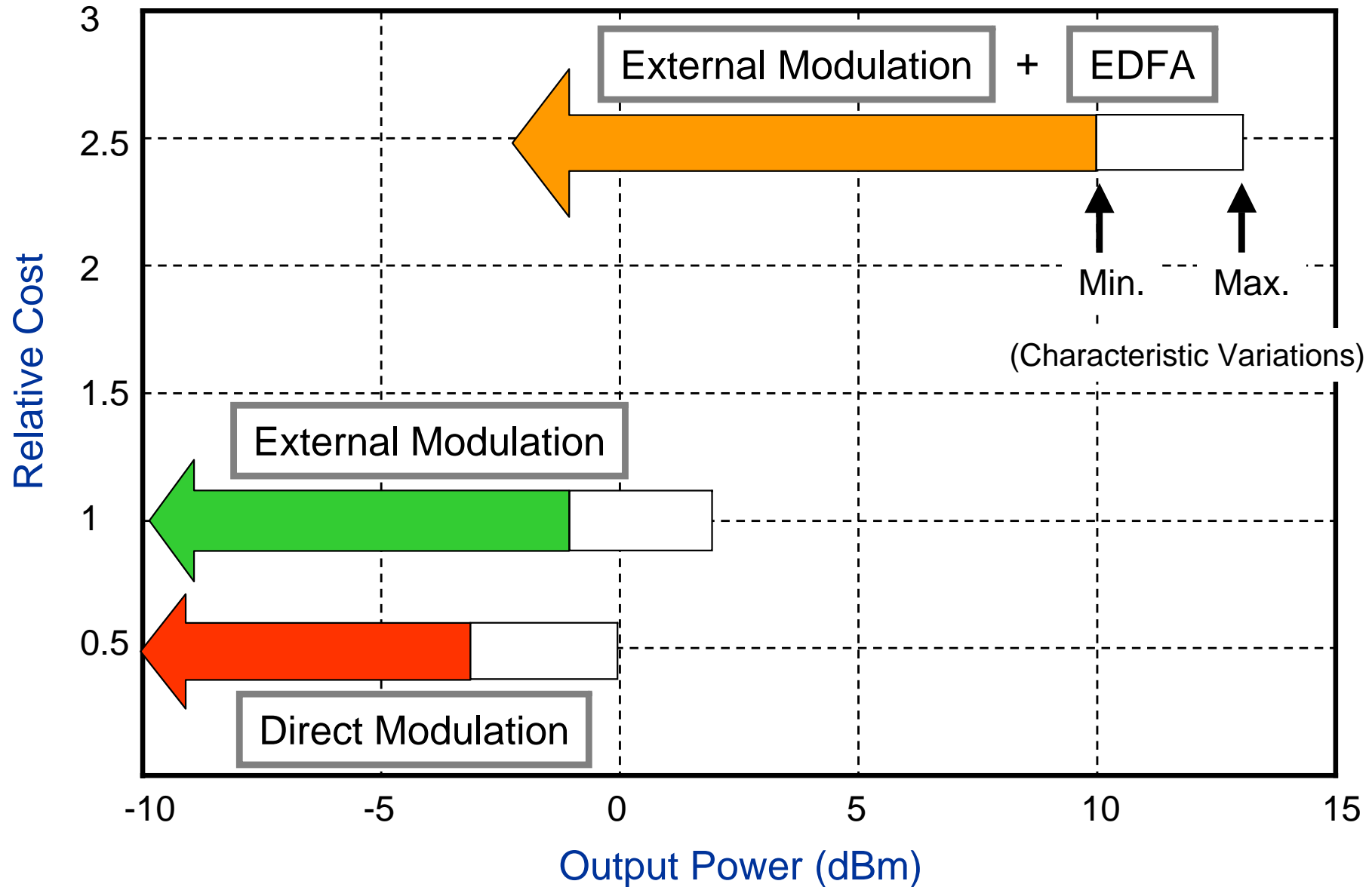
**Subject:** IEEE 802.3av 10Gb/s PHY for EPON

**Abstract:** This presentation describes examples about economical comparison of 10G devices using commercially available devices.

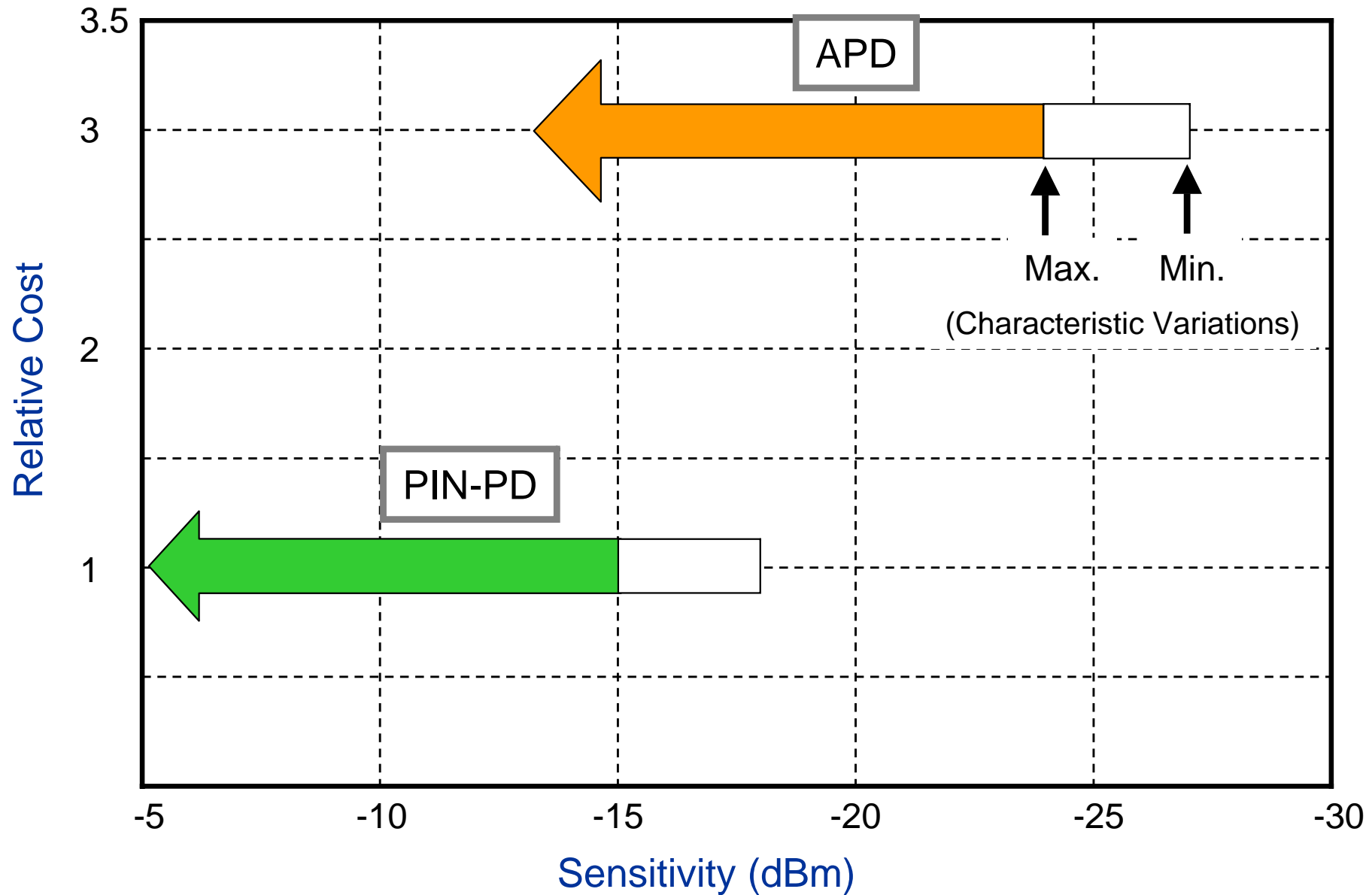
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- Transmission distance: 10 km, 20 km
- Wavelength: 1.5  $\mu\text{m}$
- Comparison of cost of optical modules using commercially available devices

# 10G Transmitter Comparison



# 10G Receiver Comparison



## ■ Overall

Studied examples of economical comparison of 10G devices which are commercially available

## ■ Find

- Almost constant in regard to output power / sensitivity
- Device type determines the relative cost
- Higher output power and sensitivity specifications may incur more expense

## ■ More studies

- Other wavelengths
- Other optical amps
- Long-range forecast