

OM4D

RADAR VIDEO FIBER OPTIC MODEM

Applications

Extension of a NAVALEX™ radar link up to 25 Km



Description

The OM4D transmits the NAVALEX™ radar analog video burst over an optical fiber. Another OM4D receives this optical signal and outputs high quality analog video and azimuth data. Each OM4D has both the transmit and a receive sections. Only the transmit section is used at the input end of the link, and the receive section is used at the output side of the link. Combining the transmit and receive simplifies sparring. Singlemode or multimode SFP or ST optics can be ordered.

The case is rugged and RFI shielded for **very low** EMI/RFI emission.

Features

- Video not degraded by fiber distance
- Single or multimode fiber operation
- Same modem at both ends of link
- 19" rack mounting option
- Industrial temperature -40°C to 70°C
- 5 Year warranty

Specifications¹

Optical²

| | |
|---|---------------|
| Range singlemode fiber | 25 km |
| Range multimode fiber 50/125 or 62.5/125 um | 5 km |
| Optical output | 1300 nm laser |
| Optical connectors | ST or SC |

Video Channel

| | |
|--------------------------------|---------------|
| Bandwidth | >3.6 MHz |
| Input voltage | - 0.1 to 6 Vp |
| I/O impedance /connector | 75Ω BNC |

General

| | |
|-----------------------------|------------------------------|
| Power supply input | External 15V DC power supply |
| Power consumption | <3W |
| Operating temperature | -10°C to 55°C |
| Dimensions | 14 x 4 x 20 cm |

Notes:

- ¹Specifications are subject to change without notice. .
- ²The optical range values are for typical fiber.

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Specifications (continued)

General

| | |
|-----------------------------|------------------------------|
| Power supply input | External 15V DC power supply |
| Power consumption | <3W |
| Operating temperature | -10°C to 55°C |
| Dimensions | 14 x 4 x 20 cm |

Notes:

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- ²The optical range values are for typical fiber.

Part Numbers

OM4D-XX-YY

- YY = SC for SC style optical connector
ST for ST style optical connector
- XX = MM for 1300nm - multimode optics
SM for 1300nm - singlemode optics

Accessories

One OM4D may be mounted in a 1U 19" rack with Luxcom's MP11 rack mount panel.
Two OM4Ds may be mounted in a 1U 19" rack with Luxcom's MP1 rack mount panel.

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