iTRVR-D | Dual-Fiber Optical Transceiver



The QAMnet iTRVR-D is a dual-fiber optical transceiver designed for deep fiber implementation in HFC networks. Incorporating a 1550 nm receiver on one input port and a 1310 nm transmitter on the output port, this module is a versatile, compact and low cost transceiver. With standard HFC configuration of forward receiver and reverse transmitter, the iTRVR-D can provide the HD video and QAM data bandwidth capacity of a traditional HFC optical node, but at a small fraction of the cost.

Along with other QAMnet products, iTRVR-D is an ideal deep fiber solution for delivering Switch Digital Broadcasting (SDB), as well as high-speed QAM data services over existing HFC infrastructure. Using a dual optical input/output design, iTRVR-D can be easily integrated with next-generation HFC networks architecture, such as RF over Glass (RFoG) or Cable Passive Optical Networks (Cable PON).

Features

- 1550 nm forward path receiver
- 1310 nm return path transmitter
- Dual optical fiber input and output
- Compatible with existing HFC installation
- Designed for RFoG and Cable PON networks
- Low power consumption
- Compact and durable
- Receiving and transmitting built in RF test ports (-20dB)
- 12-15 VDC power adaptor included

Ordering Information

• iTRVR-D



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| Technical Specifications | |
|---|--|
| Forward Path - Receiver | |
| Receiver Wavelength Range | 1527 nm - 1600 nm |
| Input Optical Power Level | +3 dBm to -6 dBm |
| RF Output Power Level | 25 dBmV Typical |
| Carrier to Noise Ration (CNR) | 50 dB Typical @ 0 dBm Input Level |
| Composite Second Order (CSO) Distortion | -60 dBc Maximum |
| Composite Triple Beat (CTB) Distortion | -61 dBc Maximum |
| Frequency Range | 54 MHz to 870 MHz |
| Return Path - Transmitter | |
| Transmitter Wavelength | 1310 nm ± 20 nm |
| Output Optical Power Level | +3 dBm to -3 dBm |
| RF Input Power Level | 15 dBmV Typical |
| Carrier to Noise Ration (CNR) | 45dB Typical @ 0 dBm |
| Composite Second Order (CSO) Distortion | -53dBc Maximum |
| Composite Triple Beat (CTB) Distortion | -65dBc Maximum |
| Frequency Range | 5 MHz to 42 MHz |
| General Specifications | |
| Flatness in Frequency Range | ±0.5 dB |
| Optical Return Loss | 45 dB Minimum |
| RF Impedance | 75 Ω |
| RF Return Loss | 16 dB Minimum |
| Environment / Mechanical Specifications | |
| Optical Connectors | 2, SC/APC |
| Temperature Range | -20 to +65 °C |
| Power Supply | 12 – 15 VDC (receiver) 80 – 240 V, 43 – 63 Hz AC (AC adaptor) |
| Power Consumption | 5 W Maximum |
| Housing Dimensions | 4.6"(W) x 5"(L) x 1.3"(H) |
| Control / Monitoring | Voltage Monitoring: Optical Level 1V/mW |
| Display | 3 LEDs: Optical Input/Output and Power |

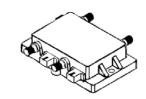


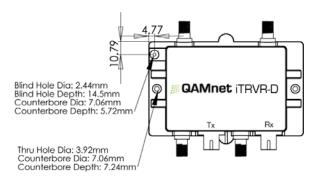
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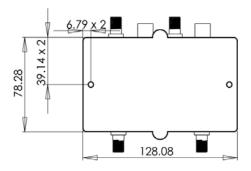
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Installation Guide









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