nTRVR-B | Bi-Directional Outdoor Transceiver

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The QAMnet nTRVR-B is a bi-directional outdoor optical node designed for deep fiber implementation in HFC networks. Using proven Wavelength Division Multiplexing (WDM) technology, a 1550nm receiver and a 1310nm transmitter are combined into a common optical input/output port. The nTRVR-B is a versatile, compact, low cost transceiver optical node. With standard HFC configuration of forward receiver and reverse transmitter, the iTRVR 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, nTRVR-B 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 single optical input/ output design, nTRVR-B can be easily integrated with the next generation HFC networks architectures, such as RF over Glass (RFoG) or Cable Passive Optical Networks (Cable PON).

Features

- 1550nm forward path receiver
- 1310nm return path transmitter
- Single optical fiber input/output
- Compatible with existing HFC installation
- Designed for RFoG and Cable PON networks
- Low power consumption
- Durable outdoor housing
- 110 VAC power adaptor and RF diplexer included

Ordering Information

- nTRVR-B

QAMnet
5110 N. 44th Street
Suite 200L
Phoenix, AZ 85018

1.877.303.3888 toll free
sales@qamnet.com email
www.qamnet.com website

Technical Specifications

Forward Path - Receiver	
Receiver Wavelength Range	1527nm - 1570nm
Input Optical Power Level	+3dBm to -6dBm
RF Output Power Level	22dBmV Typical @ 0dBm
Carrier to Noise Ration (CNR)	50dB Typical @ 0dBm Input Level
Composite Second Order (CSO) Distortion	65dBc Maximum
Composite Triple Beat (CTB) Distortion	62dBc Maximum
Frequency Range	54MHz to 870MHz
Return Path - Transmitter	
Transmitter Wavelength	1310nm ± 20nm
Output Optical Power Level	+2.5dBm Typical
RF Input Power Level	20dBmV Typical
Carrier to Noise Ration (CNR)	>40dB Typical @ 0dBm
Composite Second Order (CSO) Distortion	-50dBc Maximum
Composite Triple Beat (CTB) Distortion	-50dBc Maximum
Frequency Range	5MHz to 42MHz
General Specifications	
Flatness in Frequency Range	±0.5dB
Optical Return Loss	45dB Minimum
RF Impedance	75Ω
RF Return Loss	16dB Minimum

Environment / Mechanical Specifications

Optical Connector	1, SC/APC
Temperature Range	-20 to +65 ºC
Power Supply	12 – 15 VDC (receiver) 80 – 240 V, 43 – 63 Hz AC (AC adaptor)
Power Consumption	5W Maximum
Housing Dimensions	5.9”(W) x 4.5“(L) x 3.8”(H)
Control / Monitoring	N/A
Display	2 LEDs: Optical Input and Power

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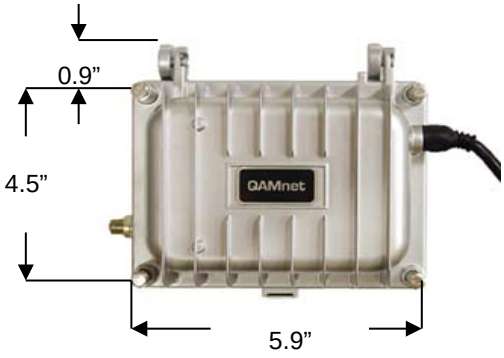
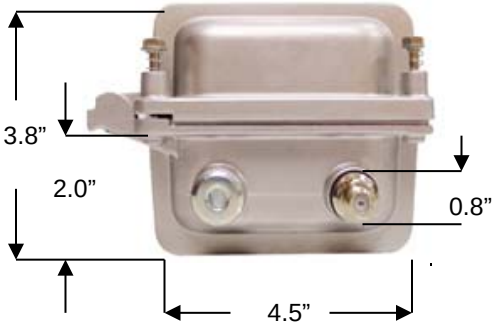
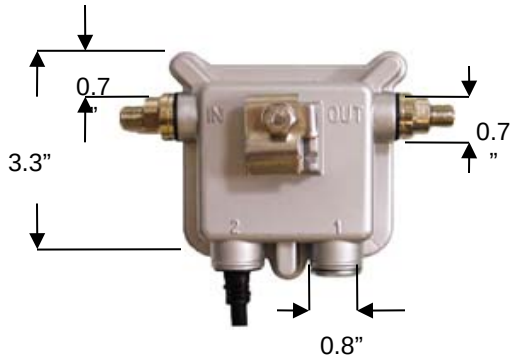
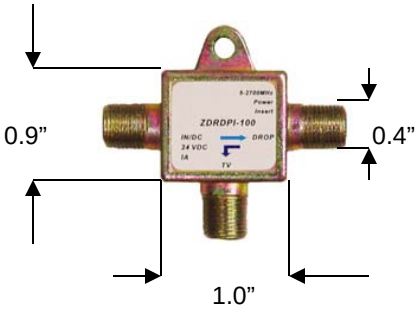
Installation Guide









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