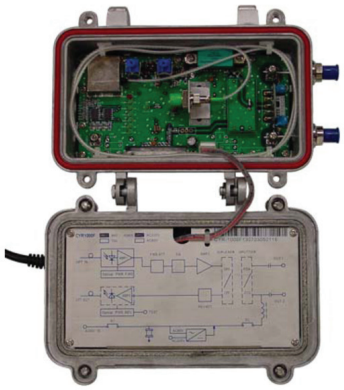
Outdoor Optical Receiver

The QAMnet nRCVR series outdoor optical receivers are reliable and costeffective for use in HFC, FTTH and deep fiber applications.



Product Description

The QAMnet nRCVR series outdoor optical receivers are reliable and costeffective for use in HFC, FTTH and deep fiber applications. The nRCVR uses a high gain, low distortion receiver module and low noise RF circuit to deliver 52 dB of CNR while maintaining optimal CSO and CTB distortion specifications.

The nRCVR supports up to 75 NTSC analog channels. Designed to be digitally ready, they can be loaded with 60 additional QAM modulated signal channels. The QAMnet nRCVR can be ordered with 1 to 4 output ports with four RF output level to select from: 36 dBmV, 40 dBmV, 44 dBmV and 48 dBmV.

Features

- Highly linear hybrid O/E converter module
- Weather proof cast aluminum outdoor housing
- Automatic Gain Control (AGC) for optimal adjustment optical input level
- LED front panel digital display and status indicators
- 45-870 MHz modulation bandwidth
- Standard 60 VAC power supply
- 1 x 4 RF output ports

Applications

✓ HFC ✓ FTTH ✓ RFoG ✓ Deep Fiber Applications

PRODUCT SPECIFICATIONS

Optical Specifications

Receiver Wavelength Range	1200 nm - 1600 nm
Input Optical Power Level	+1 dBm to -9 dBm
RF Output Power Level	36, 40, 44, 48 dBmV
Number of Outputs	1 Standard, up to 4 can be ordered
Optical Return Loss	50 dB min.
Carrier to Noise Ration (CNR)	52 dBc typ. @ 0 dBm
Composite Second Order (CSO) Distortion	-62 dBc max. @ 0 dBm
Composite Triple Beat (CTB) Distortion	-62 dBc max. @ 0 dBm
Output Attenuation Range	0 - 20 dB (manual adjustment)
Frequency Range	45 MHz to 870 MHz
Flatness in Frequency Range	±0.5 dB
Output Impedance	75 Ω
Output RF Return Loss	16 dB min.

Mechanical Specifications

Operating Temperature Range	-40°C to +55°C
Storing Temperature Range	-50°C to +75°C
Power Supply	60 V, 43 – 63 Hz AC 40 - 58 VDC (optional)
Power Consumption	50 W max.
Housing Dimensions	Determined by number of output and RF level - Contact Sales
Control / Monitoring	Optical Input Level
Display	RF Output Power Level
Optical Connectors	SC/APC or Customer Specified

Ordering Information

	nRCVR-xx-y
x	36, 40, 44, 48 (output RF Power Level in dBmV)
y	1, 2, 4 (Number of Outputs)

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