

FTTH Optical Receiver - Four Output

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Product Description

The QAMnet iRCVR-4 series optical receivers are versatile, low cost and compact for use in HFC, FTTH and deep fiber applications. The iRCVR-4 uses a broadband PIN diode and a low distortion RF amplifier circuit to deliver a sufficient level of CNR, while maintaining optimal CSO and CTB distortion specifications.

Designed to operate with very low input level, iRCVR-4 provides high optical gain. At -8 dBm of input level (OMI index of 3.5%), iRCVR-4 can still provide 49 dB of CNR and RF output level of 23.7 dBmV. With compact dimensions and light weight housing, iRCVR-4 can be utilized in almost any space requirement. The operating temperature range of iRCVR-4 is from -20°C to +50°C.

Features

- High linearity PIN diode with low-noise, high-gain RF amplifier
- Wide range of input power from +3 dBm to -12 dBm
- Gain control knob for the adjustment RF output level
- LED input optical power status indicators
- 45-870 MHz modulation bandwidth
- Compact, light weight with metal housing
- Operating temperature range is from -20°C to +50°C.
- 110 V AC power adaptor included.

Applications

✓ HFC ✓ FTTH ✓ RFoG ✓ Deep Fiber Applications

PRODUCT SPECIFICATIONS

Optical Specifications

Receiver Wavelength Range	1200 nm - 1600 nm
Input Optical Power Level	+3 dBm to -12 dBm
RF Output Power Level	25 dBmV typ. @ 0 dBm
Number of Outputs	4
Optical Return Loss	50 dB min.
Carrier to Noise Ratio (CNR)	53 dBc min. @ 0 dBm
Composite Second Order (CSO) Distortion	-52 dBc max. @ 0 dBm
Composite Triple Beat (CTB) Distortion	-50 dBc max. @ 0 dBm
Output Attenuation Range	0 - 18 dB (manual adjustment)
Frequency Range	45 MHz to 870 MHz
Flatness in Frequency Range	±1.0 dB
Output Impedance	75 Ω
Output RF Return Loss	13 dB min.

Mechanical Specifications

Operating Temperature Range	-20°C to +50°C
Storing Temperature Range	-40°C to +70°C
Power Supply	12 VDC, 100 mA (receiver) 80 - 240 V, 43 - 63 Hz AC (AC adaptor)
Power Consumption	5 W max.
Housing Dimensions	2.5"(W) x 4"(L) x 0.9"(H)
Display	2 LEDs Indicate Optical Input Power Level and Power Supply
Optical Connectors	SC/APC or Customer Specified
Housing Dimensions	2.5" x 4" x 0.9"
Accessories Included	80 - 240 V, 43 - 63 Hz AC (AC adaptor)

Ordering Information

iRCVR-4