



iRCVR-4 | FTTH Optical Receiver – Four Output



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 low distortion RF amplifier circuit to deliver sufficient level of CNR, while maintaining optimal CSO and CTB distortion specifications.

Designed to operate in 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 a compact dimensions and light weight, 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 VAC power adaptor included.

Ordering Information

- iRCVR-4



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

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



IRCVR-4 FTTN Optical Receiver – Four Output

Technical Specifications

Receiver Wavelength Range	1200 nm - 1600 nm
Input Optical Power Level	+3 dBm to -12 dBm
RF Output Power Level	25 dBmV Typical @ 0 dBm
Number of Output	4
Optical Return Loss	50 dB Minimum
Carrier to Noise Ration (CNR)	53 dBc Minimum @ 0 dBm
Composite Second Order (CSO) Distortion	-52 dBc Maximum @ 0 dBm
Composite Triple Beat (CTB) Distortion	-50 dBc Maximum @ 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 Minimum

Environment / Mechanical Specifications

Temperature Range	-20°C to +50°C (operation) -40°C to +70°C (storage)
Power Supply	12 VDC, 100 mA (receiver) 80 – 240 V, 43 – 63 Hz AC (AC adaptor)
Power Consumption	5 W Maximum
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

 **QAMnet**

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

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