Forward Receiver - High Output

The QAMnet fRCVR-H series forward path high performance receivers are reliable for use in HFC, FTTH and deep fiber applications.

Product Description

The QAMnet fRCVR-H series forward path high performance receivers are reliable for use in HFC, FTTH and deep fiber applications. The fRCVR-H uses a high gain, low distortion receiver module and low noise RF circuit to deliver 50 dB of CNR, while maintaining optimal CSO and CTB distortion specifications.

fRCVR-H supports up to 75 NTSC analog channels. Designed to be digitally ready, they can be loaded with 60 additional QAM modulated digital channels.

The fRCVR-H model provides a higher level RF output of 52 dBmV.

Features

- Highly linear hybrid O/E converter module
- Automatic Gain Control (AGC) for automatic adjustment optical input level
- Manual Gain Control (MGC) for optimal RF gain level control
- LED front panel digital display and status indicators
- 45-870 MHz modulation bandwidth
- Compact 1U housing
- Built in RF test port (-12 dB)

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 -5 dBm
RF Output Power Level	52 dBmV typ.
Number of Outputs	1 Standard, 2 Output (optional)
Optical Return Loss	50 dB min.
Carrier to Noise Ration (CNR)	52 dBc min. @ 0 dBm
Composite Second Order (CSO) Distortion	-65 dBc max. @ 0 dBm
Composite Triple Beat (CTB) Distortion	-58 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	0°C to +50°C
Storing Temperature Range	-40°C to +70°C
Power Supply	80 – 240 V, 43 – 63 Hz AC
Power Consumption	50 W max.
Housing Dimensions	1U Rack: 19"(W) x 14"(D) x 1.75"(H)
Control / Monitoring	Housing Temperature
Display	RF Output Power Level
Optical Connectors	SC/APC or Customer Specified

Ordering Information

	fRCVR-H-x
x	1, 2; Number of Outputs

QAMnet 5110 N 44th St, Ste 200L, Phoenix AZ 85018
optilab.com 877-303-3888 602-343-8217 sales@qamnet.com