



## fRCVR-S | Forward Rack Mount Optical Receiver



The QAMnet fRCVR-S series forward path high performance receivers are reliable for use in HFC, FTTH and deep fiber applications. The fRCVR-S 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-S 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-S model provides a standard RF output level of 40 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)

### Ordering Information

- fRCVR-S-x
- x: 1,2 (Number of Output)



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### Technical Specifications

Receiver Wavelength Range	1200 nm - 1600 nm
Input Optical Power Level	+3 dBm to -5 dBm
RF Output Power Level	40 dBmV Typical
Number of RF Outputs	1 Standard, 2 Output (optional)
Optical Return Loss	50 dB Minimum
Carrier to Noise Ration (CNR)	52 dB Typical @ 0 dBm Input Level
Composite Second Order (CSO) Distortion	-65 dBc Maximum
Composite Triple Beat (CTB) Distortion	-58 dBc Maximum
Output Attenuation Range	0 - 20 dB in MGC mode
Frequency Range	45 MHz to 870 MHz
Flatness in Frequency Range	±0.5 dB
Output Impedance	75 Ω
Output RF Return Loss	16 dB Minimum

### Environment / Mechanical Specifications

Temperature Range	0°C to +50°C (operation) -40°C to +70°C (storage)
Power Supply	80 – 240 V, 43 – 63 Hz AC
Power Consumption	50 W Maximum
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



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