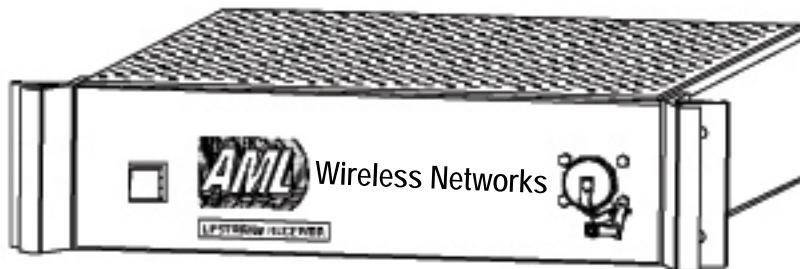




Wireless Networks

MULTI CHANNEL UPSTREAM RECEIVER – INDOOR



- **MULTI-CHANNEL**
- **19" RACK MOUNTED**
- **BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM**
- **AUTOMATIC GAIN CONTROL (AGC)**

DESCRIPTION

The Multichannel upstream receiver – indoor (URX-13062) is a return path downconverter, and is available in a standard version and a plus version. The standard upstream receiver block downconverts a 13163.5 to 13199.5 MHz BPSK, QPSK, 16 QAM, 64 QAM or 256 QAM input data stream to the 5 to 41 MHz VHF band. The plus version downconverts a 13213.5 to 13249.5 MHz input to the 5 – 41 MHz VHF band.

Downconversion is phaselocked to a pilot tone included with the signals transmitted from the upstream transceiver. This allows coherent downconversion with low phase noise characteristics as required for the

reception of digitally modulated signals. In addition, the headend transmitter TCXO output is split so as to lock both its DRO and the upstream receiver DRO. With the upstream transceiver phaselocked to the headend transmitter this means that all three units that make up the access system have identical XO frequencies and that downconversion will be to the identical VHF channel frequency assignment.

The upstream receiver incorporates AGC circuits to maintain optimal linearity and constant downconverted carrier to noise levels over a range of faded path conditions.

SPECIFICATIONS

Input Frequencies.....	(Standard) 13163.5 MHz to 13199.5 MHz
.....	(Plus) 13213.5 MHz to 13249.5 MHz
Output Frequencies.....	5 - 41 MHz
Nominal Gain.....	21 dB
Gain Flatness.....	+2.0 dB
AGC Dynamic Range.....	15 dB minimum
AGC Flatness.....	+1dB
Nominal Output Level	24 dBmV
Frequency Stability.....	+0.0005%
Output Return Loss.....	16 dB
Input Return Loss.....	16 dB
Input Connector.....	WR-75 Cover Flange
Output Connector.....	female F-type connector
Temperature Range.....	40F to 100F
.....	4C to 38C
Humidity.....	95 %
Primary Power.....	117 VAC \pm 10%, 60 Hz
.....	50 Watts maximum
Dimensions.....	19" X 13.5" x 10.1"
.....	483 mm x 343 mm x 257 mm
Weight	16 lbs/13.4 kg
Shipping Dimensions	24" x 18" x 12"
.....	610 mm x 457 mm x 305 mm
Shipping Weight	22 lbs/18.4 kg

Specifications subject to change without notice