

# Model: RFIR-TX

*RF modulated IR control transmitter*



## description:

The RFIR-TX is an infrared signal control processor/transmitter that encodes infrared data signals into discrete packets that are communicated over RF distribution networks and is compatible with both analog and digital (QAM) networks. The RFIR-TX connects to a host PC by standard RS-232 COM serial port interface. Infrared control signals are captured through the RFIR-TX learning port and are stored on the host PC as files. These files are sent to the transmitter from the host PC's serial port connection. Once the RFIR-TX receives these data files, they are encoded into individual packets for transport across the RF network using a specially designated carrier frequency. These packets are captured and decoded by the companion receiver unit (RFIR-RX) which processes them back to the original infrared signal and sends them out to an IR emitter diode attached to the target device's infrared sensor.

## specifications:

The rackmount transmitter unit sends digital information at 418 MHz (cable channel 56).

This RFIR-TX unit connects to the control PC by standard RS-232 DB-9 connector mounted on the transmitter unit's back panel. Baud rate 9600, 8, none, 1 protocol.

Two separate F-connectors mounted on the transmitter back panel provide concurrent RF outputs.

The transmitter delivers +56 Dbmv into 75 ohm from each of these RF output connectors for use with a CATV or MATV combiner. Signal attenuation up to 20 DB for each RF output is provided via back panel adjustments. A separate test output provides a fixed +36Dbmv.

The front panel includes a power indicator, a data activity indicator and an integrated IR learner with indicators.

The transmitter is housed in a single RU high standard 19 inch rack mountable chassis.



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