

210 FM

Programmable
Composite
FM Receiver



- Professional grade FM Broadcast Receiver
- High sensitivity, good selectivity, low distortion and low signal to noise
- PLL Synthesized tuning with internal dip switches.
- Composite, Stereo demodulated, and Speaker/Headset monitor outputs
- Control contact to mute Transmitter in case of loss of incoming receive signal
- All main functions visible on front panel
- Internally selectable parameters can be user-set to tailor receiver application
- Can operate on 12 V. DC or 120 V. AC (220 V. upon request)
- Optional SCA and RDS demodulation
- Ideal to form a Translator Station with a Bext Transmitter/Exciter

Specifications

(Note: SCA and RDS demodulation is available as an option - all specifications referring to SCA and RDS are pertaining to models with such option)

Frequency Range: 88 to 108 MHz, internally selectable by dip switches

Wide and narrow band AGC

Antenna Input: "N" connector, 50 Ohm

Sensitivity: 1.5 microvolt, 30 dB SINAD

Frequency Response: 20Hz to 15kHz (-3dB)

Distortion: 0.25% THD at 100% Mod
S/N: > 66 dB

AM Rejection: > 50dB

Intermodulation: 5 mV (73dB) rejection

Second Adj Channel Rejection: 36 dB

SCA Sensitivity: 5 microV, 20 dB SINAD

Main to SCA Crosstalk: > 52 dB

SCA Distortion: < 1.2% THD (7.5 KHz deviation)

SCA Frequency Response: 4 KHz min

Line Output: 1.0 V. RMS, 600 Ohm

SPKR Output: 0.3 Watt into 8 Ohm

Wide and narrow band AGC

+6dBm balanced and unbalanced FM audio output, stereo

+6dBm composite audio output

+6dBm SCA output

Selectable 50, 75 microsecond de-emphasis, or no de-emphasis (Main)

Selectable 25, 50 or 100 kHz frequency tuning steps

Selectable 150, 225 microsecond, or no de-emphasis (SCA)

Main or SCA channel 350mW amplifier for monitor

FM stereo with 40dB or better separation
FM signal strength blend and high cut if desired

Adjustable level carrier detector relay
RDS demodulator with carrier detector, clock, and data

LED indicators for Signal Strength, Power, Main Carrier, Stereo, SCA Carrier and RDS

Switchable 67 / 92 KHz SCA demodulator
DC coupled SCA FSK data output with adjustable symmetry

Adjustable soft FM mute

Adjustable SCA muting

CONTROLS:

ON/OFF: Rear Panel Main Power Toggle Switch

SCA/Main: Front Panel Switch to select audio source for SPKR out

Volume Control: Rear Panel trimmer

Carrier Level Relay: Rear Panel trimmer

SCA Mute: Rear Panel trimmer

DATA: Rear Panel trimmer to set FSK data detect level

SCA 1or 2: Rear Panel Toggle Switch for selecting SCA subcarrier

INDICATORS:

MAIN SIGNAL LEVEL: Front Panel 10 segment LED

RDS: LED indicates RDS subcarrier present

SCA: LED indicates SCA subcarrier present

STEREO: Indicates the Stereo Pilot subcarrier is present

RELAY: Front Panel LED indicates the carrier relay activated

POWER: Front Panel LED indicates power is applied.

SIZE: 19.0"W x 8"D x 1 3/4"H /

482 mm W x 203mm D x 44mm H

(1 rack space unit high)

WEIGHT: 10 lbs / 4.5 Kg