

SR 20M : Technical Specifications

The SR 20M is the companion receiver to the STL 20M transmitter. This unit is fully synthesized and can be operated in any frequency within the specified band of operation. The STL 20M is a single frequency receiver, but is fully synthesized for great performance.



AVAILABLE OPERATING FREQUENCIES

150 MHz Band:
Range from 135 to 185 MHz

240 MHz Band:
Range from 215 to 265 MHz

330 MHz Band:
Range from 300 to 350 MHz

450 MHz Band:
Range from 430 to 480 MHz

950 MHz Band:
Range from 935 to 965
MHz

RF SPECIFICATIONS

Frequency Programming:

Increments:

1 Hz

Accuracy:

± 0.00025% of center frequency

Change Time:

<2 seconds

Receive Bandwidth:

125-250 kHz, depending on selected frequency

Deviation:

Adjustable, ±20 kHz max

Stability over Operating Temperature range:

± 0.0001%

Sensitivity:

50 dB Signal-to-Noise:

4 µVs

60 dB Signal-to-Noise:

14 µVs

Max Signal-to-Noise (typically 75 dB or greater):

100 µVs

AUDIO SPECIFICATIONS

Type of technology to produce carrier:

Phase-locked loop (synthesized)

Spurious Response:

-90 dB

Mono Operation:

Connector Type:

15-pin D connector or external terminal strip

Output Impedance:

Balanced 600 Ohms

Output Level:

-10 dBm to +11 dBm

Frequency Response (20 Hz to 15 kHz):

±0.2 dB

S/N Ratio @ 100 µV Input:

200 kHz BW @ 50 kHz Dev:

>75 dB

125 kHz BW @ 15 kHz Dev:

>64 dB

125 kHz BW @ 9 kHz Dev:

>60 dB

THD + Noise:

200 kHz BW @ 50 kHz Dev:

0.25% or less, 20 Hz to 15 kHz

125 kHz BW @ 15 kHz Dev:

0.3% or less, 20 Hz to 15 kHz

125 kHz BW @ 9 kHz Dev:

0.3% or less, 20 Hz to 15 kHz

MECHANICAL/PHYSICAL

RF Input Connector:

Type N Female

Accessory Connector:

15-pin D connector or terminal strip

Output Connector:

15-pin D connector or terminal strip

Dimensions (Unpacked):

3.5"H x 19"W x 15.5"D (8.9cm H x 48.3cm W x 39.4cm D)

Weight (Unpacked):

7.8 lbs (3.5 kg)

ENVIRONMENTAL

Operating Temperature:

-20° C to +50° C

Altitude:

10,000 ft (3048m) max

Humidity:

95% maximum, non-condensing

ELECTRICAL

Voltage:

AC Operation:

85-264 VAC; 47-63 Hz

DC Operation:

+10 to +14 VDC (Via D Connector)

Current Draw:

1.5 A @ 12 VDC

Power Consumption:

55 W Max (25 W typical)

Heat Dissipation:

55 W Max

Fuse:
1.25 amp slo-blo