

SRPT 30 : Technical Specifications

The new SRPT 30 is the replacement transmitter for the well-known RPT 30. This model incorporates the proven synthesizer and RF amplifier technology that has been proven in the SRPT 40A and the STL 20C. The features are similar to the RPT 30, but is wide band so there is no minimum separation of the two frequencies as long as they are within the band selected. This two-channel synthesized RPU transmitter is available in bands from 135 MHz to 965 MHz.



AVAILABLE OPERATING FREQUENCIES

- 150 MHz Band:**
Range from 135 to 185 MHz
- 230 MHz Band:**
Range from 215 to 250 MHz
- 250 MHz Band:**
Range from 235 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

Typical Max RF Output Power:

- Power @ 135-185 MHz:**
30 W
- Power @ 215-250 MHz:**
30 W
- Power @ 235-265 MHz:**
30 W
- Power @ 300-315 MHz:**
30 W
- Power @ 315-350 MHz:**
30 W
- Power @ 430-480 MHz:**
30 W
- Power @ 935-960 MHz:**
20 W
- Power @ 960-965 MHz:**
30 W

Selection:

Any two frequencies within selected band can be factory set with 5 and 6.25 kHz steps

Deviation:

Adjustable, ± 20 kHz max

Stability over Operating Temperature range:

$\pm 0.0001\%$

Agility and Accuracy:

For frequencies <480 MHz divisible by 5 kHz or 6.25 kHz:

$\pm 0.00004\%$

For MOST frequencies <480 MHz NOT divisible by 5 kHz or 6.25 kHz:

$\pm 0.00015\%$

For frequencies >800 MHz divisible by 10 kHz or 12.5 kHz:

$\pm 0.00004\%$

For MOST frequencies >800 MHz NOT divisible by 10 kHz or 12.5 kHz:

$\pm 0.00015\%$

AUDIO SPECIFICATIONS

Modulation Control:

Broadcast quality compressor/limiter built-in

Audio Input Level:**Mic In:**

-68 dB to -35 dB

Line In:

0 to +10 dBm, 8-600 Ohms

Mono Operation:**Frequency Response:****50 Hz to 3 kHz:**

± 1.5 dB, 1.5 kHz Dev

50 Hz to 7.5 kHz (Standard):

± 1.5 dB, 5 kHz Dev

50 Hz to 10.5 kHz:

± 1.5 dB, 7.5 kHz Dev

Signal To Noise:

≥ 53 dB, 5 kHz deviation, 75 μ sec pre/de-emphasis

Frequency Response:

± 1.5 dB from 50 Hz to audio bandwidth, 75 μ sec pre-emphasis

Distortion:

≤ 2% from 50 Hz to audio bandwidth, 75 μ sec pre-emphasis

Spurious Emission:

More than 60 dB below carrier

Encoding:

Sub-audible (27 Hz) tone encoder built in

RF Output Impedance:

50 Ohm

MECHANICAL/PHYSICAL

Audio Inputs:

4 balanced microphone (150 Ohm) inputs (XLR-3) with mixing controls, 1 input switchable to balanced line level at no. 4 input and D connector on rear

Accessory Connector:

15-pin D connector for DC power, remote control, encode, line level input

RF Connector:

Type N female

Dimensions (Unpacked):

3.5"H x 11.5"W x 14.3"D (8.9cm H x 29.2cm W x 36.8cm D)

Weight (Unpacked):

8.25 lbs (3.74 Kg)

ENVIRONMENTAL

Operating Temperature:

-10° C to +45° C

Altitude:

10,000 ft (3048m) max

Humidity:

95% maximum, non-condensing

ELECTRICAL

Approx PA Current Reading (at max power output):

6.5 A to 7.5 A

Power Requirements:

AC:

110-120 VAC or 220-240 VAC (manually switched internally on power supply), 50/60 Hz

External DC:

12-15 V to 15-30 V

Power Consumption:

300 W Max (150 W Typical)

Heat Dissipation:

300 W Max

Fuse:

2.5 A Slo-Blo for 115 VAC operation, 1.25 A Slo-Blo for 230 VAC operation