



SRPT-30

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. See chart below for exact bands available.

SRPT-30 Specifications

Frequency Bands and Continuous Duty, Maximum Power Output 50 Ohms ($\pm 10\%$):

Model Number	Frequency Bands	Power
SRPT-30-150	135-185 MHz	20 Watts @ 135-140 MHz 30 Watts @ 140-180 MHz 20 Watts @ 180-185 MHz
SRPT-30-230	215-250 MHz	30 Watts @ 215-250 MHz
SRPT-30-250	235-265 MHz	25 Watts @ 235-245 MHz 30 Watts @ 245-265 MHz
SRPT-30-330	300-350 MHz	20 Watts @ 300-315 MHz 30 Watts @ 315-350 MHz
SRPT-30-425	390-440 MHz	30 Watts @ 390-440 MHz
SRPT-30-450	390-440 MHz	30 Watts @ 390-440 MHz
SRPT-30-500	470-520 MHz	30 Watts @ 470-520 MHz
SRPT-30-850	840-870 MHz	20 Watts @ 840-870 MHz
SRPT-30-925	900-935 MHz	20 Watts @ 900-935 MHz
SRPT-30-950	935-965 MHz	20 Watts @ 935-960 MHz 18 Watts @ 960-965 MHz

Special frequencies on request. Allow longer delivery time.
Check with MARTI Sales for availability.

Frequency Selection:

Any two frequencies within selected band can be factory set with 5 and 6.25 kHz steps for 480 MHz and below, or 10 and 12.5 kHz steps for above 935 MHz.

Frequency Stability:

-10°C to $+45^{\circ}\text{C}$ $\pm 0.0001\%$.

Frequency Agility and Accuracy:

Two frequencies only, F1 and F2, determined at time of order, must operate within model frequency band shown above and will have an accuracy within:

SRPT-30 models 150 to 450:

- $\pm 0.0004\%$ for frequencies divisible by 5 or 6.25 kHz,
- $\pm 0.0015\%$ for MOST frequencies NOT divisible by 5 or 6.25 kHz*.

SRPT-30 model 950:

- $\pm 0.0004\%$ for frequencies divisible by 10 or 12.5 kHz,
- $\pm 0.0015\%$ for MOST frequencies NOT divisible by 10 or 12.5 kHz*.

* There are a few non-standard frequencies that will not automatically tune to within $\pm 0.0015\%$ of requested frequency. For those frequencies, the operator must change to the nearest standard frequency and then manually tune the reference oscillator to the desired frequency. Contact the factory for more details or consult the operations manual.

Front Panel Controls:

4 input level controls, meter select switch, encode switch, frequency select switch for F1 and F2, power adjust pot, transmit/standby, monitor jack.

Metering:

Illuminated meter showing: forward and reverse power, PA current, B+, and audio compression. LEDs indicate: transmit, AFC lock, high VSWR, and high temp.

Modulation Control:

Broadcast quality compressor limiter built in. (See system specifications at bottom of page 23.)

Audio Inputs:

Four balanced microphone (150 ohm) inputs (XLR3) with gain controls. One input switchable to balanced line level at input No. 4 input and "D" connector on rear.

Deviation:

Adjustable, ± 20 kHz max.

Audio Input Level:

Microphone input level can be from -68dB to -35dB . Line level can be from 0 to $+10\text{dBm}$, 8-600 ohms.

Audio Bandwidth:

Standard 7.5 kHz. (5 kHz and 10 kHz available on special request.)

Signal To Noise:

$\geq 53\text{dB}$, 5 kHz deviation, 75 μsec pre/de-emphasis.

Frequency Response:

$\pm 1.5\text{dB}$ from 50 Hz to audio bandwidth, 75 μsec pre-emphasis.

Distortion:

$\leq 2\%$ from 50 Hz to audio bandwidth, 75 μsec pre-emphasis.

Audio Connectors:

XLR-3.

Encoding:

Sub-audible (27 Hz) tone encoder built in.

Accessory Connector:

15 pin "D" connector, DC power (12-15 VDC or 15-30 VDC), remote control, encode, line level input.

RF Output Impedance:

50 ohms.

RF Connector:

Type N-female.

Spurious Emission:

More than 60dB below carrier.

Power Requirements:

110-220 VAC or 220-240 VAC (power supply manually switched internally for proper input), 50/60 Hz. External DC operation on 12-15 Volts or 15-30 Volts.

Approximate PA Current Rating (at maximum power output):

6.5 to 7.5 amps. The data varies across frequency band and from model to model.

Dimensions:

3.5" H x 11.5" W x 14.3" D. (8.89 cm H x 29.21 cm W x 36.83 cm D).

Boxed Dimensions:

22" H x 19" W x 9" D. (55.88 cm H x 48.26 cm W x 22.86 cm D).

Weight:

Net 8.25 lbs. (3.74 Kg) Packed 16.75 lbs (7.60 Kg).

FCC ID:

DDE-RPU-60W-150S for 135-185 MHz model.
DDE-RPU-50W-450S for 430-480 MHz model.