

### SRPT 30 - Specifications : Technical Specifications

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#### AVAILABLE OPERATING FREQUENCIES

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**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

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**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,  $\pm 20$  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:**

$\pm 0.00015\%$

# Broadcast Electronics

## Technical Specifications

### AUDIO SPECIFICATIONS

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**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 µsec pre/de-emphasis

**Frequency Response:**

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

**Distortion:**

≤ 2% from 50 Hz to audio bandwidth, 75 µsec 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

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**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

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**Operating Temperature:**

-10° C to +45° C

**Altitude:**

10,000 ft (3048m) max

**Humidity:**

95% maximum, non-condensing



# Broadcast Electronics

## Technical Specifications

### ELECTRICAL

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**Approx PA Current Reading (at max power output):**

6.5 A to 7.5 A

**Power Requirements:**

**AC:**

132 VAC or 176-264 VAC (manually switched internal linear 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

**ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

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