The STL-20C is our latest composite STL transmitter. This transmitter replaces the STL-15C. There are a number of changes that were made to make this the price-value leader in composite STL products. The STL-20C is synthesized, frequency agile and utilizes a new RF amplifier as well as a cooling fan. More power, reliable, cooler, and easier to tune – that’s the new STL-20C.

**STL-20C Specifications**

**Frequency Bands and Continuous Duty Maximum Power Output (±10%):**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Frequency Bands</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>STL-20C-150</td>
<td>135-185 MHz</td>
<td>20 Watts @ 135-140 MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 Watts @ 140-180 MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 Watts @ 180-185 MHz</td>
</tr>
<tr>
<td>STL-20C-230</td>
<td>215-250 MHz</td>
<td>30 Watts @ 215-250 MHz</td>
</tr>
<tr>
<td>STL-20C-250</td>
<td>232-265 MHz</td>
<td>25 Watts @ 235-245 MHz</td>
</tr>
<tr>
<td>STL-20C-330</td>
<td>300-350 MHz</td>
<td>20 Watts @ 300-315 MHz</td>
</tr>
<tr>
<td>STL-20C-425</td>
<td>390-440 MHz</td>
<td>30 Watts @ 390-440 MHz</td>
</tr>
<tr>
<td>STL-20C-450</td>
<td>430-480 MHz</td>
<td>30 Watts @ 430-480 MHz</td>
</tr>
<tr>
<td>STL-20C-500</td>
<td>470-520 MHz</td>
<td>30 Watts @ 470-520 MHz</td>
</tr>
<tr>
<td>STL-20C-850</td>
<td>840-870 MHz</td>
<td>20 Watts @ 840-870 MHz</td>
</tr>
<tr>
<td>STL-20C-9255</td>
<td>900-935 MHz</td>
<td>20 Watts @ 900-935 MHz</td>
</tr>
<tr>
<td>STL-20C-950</td>
<td>935-965 MHz</td>
<td>20 Watts @ 935-960 MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 Watts @ 960-965 MHz</td>
</tr>
</tbody>
</table>

Special Frequencies on request. Allow longer delivery time. Check with MARTI sales for availability.

**Audio Inputs:**
- Mono: Balanced 600 ohms, +8 dBm, 15 pin D connector or external terminal bus board.
- Composite: 3 Ypp for 100% modulation, 5ohms.
- BNC Connector, Subcarriers: 3 Ypp for 10% injection, 5ohms unbalanced, BNC Connectors.

**Accessory Connector:**
- 15 pin D connector or external terminal bus board for external DC power, remote control, balanced mono line level input.

**Audio Bandwidth:**
- Mono: 15 kHz.
- Composite: 53 kHz.

**Pre-Emphasis:**
- 0, 25, 50, 75, 100 kHz. User selectable (mono mode only).

**Deviation:**
- Standard: ± 250 kHz.
- Adjustable up to ±200 kHz max.

**Signal-to-Noise:**
- ≥74 dB, 75 spec pre-emphasis, ±50 kHz deviation.

**Frequency Response:**
- Mono: ≥39 dB, 50 Hz – 15 kHz.
- Composite: ≤55 dB, 50 Hz – 55 kHz.
- ≤1 dB, 55 Hz – 100 kHz.
- ≤2 dB, 100 Hz – 190 kHz.

**Distortion:**
- ≤0.2% from 50 Hz – 190 kHz.

**Separation:**
- 50dB min, 100 Hz – 1 kHz.
- 55dB min, 1 kHz – 15 kHz.

**Spurious Emissions:**
- More than 60 dBc from center frequency.

**RF Connector:**
- Type N female.

**RF Output Impedance:**
- 50 ohms.

**Type of Technology to Produce Carrier:**
- Phase-locked loop: synthesized.

**Modulation:**
- Direct FM (synchronized).

**Operating Temp. Range:**
- -20°C to +50°C (±0.0001%).

**Automatic Changeover:**
- Provision for automatic changeover by adding an ATS-20C and an additional transmitter.

**Power Requirements:**
- 110-120 VAC, 60 Hz or 220-240 VAC, 50/60 Hz input.
- (Manually switched internal linear supply).
- External DC operation on 12-15 or 15-30 Volts DC via D connector.

**Fuse:**
- 2.5 amp slow-blo for 115 VAC operation, 1.25 slo-blo for 230 VAC operations.

**Approximate PA Current Rating:**
- 6.5 to 8.5 amps at maximum power output. (Varies across frequency band and from model to model.)

**Subcarrier Inputs:**
- 2 BOC connectors, 50 ohm unbalanced, 3 Ypp for 10% injection.

**Dimensions:**
- 3.5” H x 19” W x 15.5” D.
- (8.89 cm H x 48.26 cm W x 39.37 cm D.)

**Boxed Dimensions:**
- 9” H x 22” W x 15” D.
- (22.86 cm H x 55.88 cm W x 38.1 cm D.)

**Weight:**
- Net 8.75 pounds. Domestic packed 17.25 pounds.
- (Net 3.97 kg, Export packed 7.82 kg.)

**FCC ID:**
- BDB-20W-510S (FCC Part 74 Subpart D).
- 940-952 MHz. Emission Designations: 200S51E, 400S51E, 800S51E, 1945S8, 280S51E, 490S51E.

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