# SXC110-Twin Single-Band 1800MHz Tower Mounted Amplifier

## Features:
- Single Band Operation, 1800MHz
- Provides 12dB Gain Across The Band
- Excellent Noise Figure, 1.3dB Typical
- Low Downlink Insertion Loss, 0.45dB Typical
- High Output Intercept Point, 24dBm
- Bypass Path for Failsafe Operation and Diagnostics
- AISG 2.0 Compliant Control Interface
- IP67 Rated Outdoor Housing

## Amplifier Specifications

### Uplink (RX) Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Band</td>
<td>1710 to 1785MHz</td>
</tr>
<tr>
<td>Gain</td>
<td>12dB +/-1dB</td>
</tr>
<tr>
<td>Noise Figure</td>
<td>1.2dB (typical)</td>
</tr>
<tr>
<td>OIP3</td>
<td>&gt; 24dBm</td>
</tr>
<tr>
<td>Return Loss</td>
<td>&gt; 18dB (16dB in bypass mode)</td>
</tr>
<tr>
<td>Insertion Loss in Bypass Mode</td>
<td>&lt; 3.5dB</td>
</tr>
<tr>
<td>Power Handling</td>
<td>150W Average</td>
</tr>
</tbody>
</table>

### Downlink (TX) Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Band</td>
<td>1805 to 1880MHz</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>&lt; 0.6dB (0.45dB typical)</td>
</tr>
<tr>
<td>Return Loss</td>
<td>&gt; 18 dB</td>
</tr>
<tr>
<td>IMD3 In Rx Band</td>
<td>&gt; 160dBc (2 x 43dBm tones)</td>
</tr>
</tbody>
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![Amplifier Block Diagram](image-url)
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**DC / AISG Specifications**

- **DC Power Supply**: 10 to 30VDC
- **Power Consumption**: < 1.5W (RET power not included)
- **RET Current**: < 2A
- **AISG Compatibility**: AISG V2.0

**Mechanical**

- **RF Connectors**: 7/16 DIN Female Long Neck
- **RET Connectors**: 8-pin Circular female IEC-60130-9
- **GND Connection**: M8 stud
- **Weight inc bracket**: 2 kg
- **Volume**: 1.5 Litre
- **Colour**: Grey
- **Mounting arrangements**: Wall or Pole

**Environmental**

- **Operating Temp (°C)**: -40 to +65
- **Environmental Operation Conditions**: ETSI 300 019 1-4
- **Environmental Storage Conditions**: ETSI 300 019 1-1
- **Ingress Protection**: IP67
- **Lighting Surge Protection**: ±10KA, 8/20 us
- **EMC Protection**: EN 301 489-8 Compliant