Dual Band Tower Mounted Amplifier, 1800//2600 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (2 devices with 2 sub-units each), with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- 2 input ports and 2 output ports
- Automatic LNA by-pass function
- Built in lightning protection
- Connectors “in line”
- Single AISG with 1 RET connector
- 2 devices with 2 sub-units

### Product Classification

**Product Type**

1-BTS:1-ANT (Uniplex) | Tower mounted amplifier

### General Specifications

**Color**

Gray

**Modularity**

2-Twin

**Mounting**

Pole | Wall

**Mounting Pipe Hardware**

Band clamps (2)

**RF Connector Interface**

4.3-10 Female

### Dimensions

**Height**

280 mm | 11.024 in

**Width**

225 mm | 8.858 in

**Depth**

104 mm | 4.094 in

**Mounting Pipe Diameter Range**

50–120 mm
Outline Drawing

Electrical Specifications

License Band, LNA

DCS 1800 | IMT 2600

Electrical Specifications, dc Power/Alarm

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc Switching/Redundancy</td>
<td>Yes</td>
</tr>
<tr>
<td>Lightning Surge Current</td>
<td>10 kA</td>
</tr>
<tr>
<td>Lightning Surge Current Waveform</td>
<td>8/20 waveform</td>
</tr>
<tr>
<td>Voltage</td>
<td>7–30 Vdc</td>
</tr>
<tr>
<td>Alarm Current, CWA Mode</td>
<td>190 mA ±10 mA</td>
</tr>
</tbody>
</table>

Electrical Specifications, AISG
AISG Connector: 8-pin DIN Female
AISG Connector Standard: IEC 60130-9
Protocol: AISG 2.0
Voltage, AISG Mode: 10–30 Vdc

Electrical Specifications

<table>
<thead>
<tr>
<th>Sub-module</th>
<th>Branch</th>
<th>Port Designation</th>
<th>License Band</th>
<th>Return Loss - Bypass Mode, typical, dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>ANT</td>
<td>DCS 1800, LNA</td>
<td>14</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>ANT</td>
<td>IMT 2600, LNA</td>
<td>14</td>
</tr>
</tbody>
</table>

Electrical Specifications Rx (Uplink)

<table>
<thead>
<tr>
<th>Frequency Range, MHz</th>
<th>Bandwidth, MHz</th>
<th>Gain, nominal, dB</th>
<th>Noise Figure, typical, dB</th>
<th>Output IP3, minimum, dB</th>
<th>Return Loss, minimum, dB</th>
<th>Insertion Loss - Bypass Mode, typical, dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1710–1785</td>
<td>75</td>
<td>12</td>
<td>1.5</td>
<td>20</td>
<td>18</td>
<td>3</td>
</tr>
<tr>
<td>2500–2570</td>
<td>70</td>
<td>12</td>
<td>1.6</td>
<td>25</td>
<td>18</td>
<td>3.3</td>
</tr>
</tbody>
</table>

Electrical Specifications Tx (Downlink)

<table>
<thead>
<tr>
<th>Frequency Range, MHz</th>
<th>Bandwidth, MHz</th>
<th>Insertion Loss, typical, dB</th>
<th>Return Loss, minimum, dB</th>
<th>Input Power, RMS, maximum, W</th>
<th>Input Power, PEP, maximum, W</th>
<th>3rd Order PIM, typical, dBC</th>
<th>3rd Order PIM Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1805–1880</td>
<td>75</td>
<td>0.5</td>
<td>18</td>
<td>200</td>
<td>2000</td>
<td>-163</td>
<td>Two +43 dBm carriers</td>
</tr>
<tr>
<td>2620–2690</td>
<td>70</td>
<td>0.5</td>
<td>18</td>
<td>200</td>
<td>2000</td>
<td>-163</td>
<td>Two +43 dBm carriers</td>
</tr>
</tbody>
</table>

Block Diagram
Mechanical Specifications

Wind Speed, maximum

200 km/h | 124.274 mph

Environmental Specifications

Operating Temperature

-40 °C to +65 °C (-40 °F to +149 °F)

Relative Humidity

Up to 100%

Corrosion Test Method

IEC 60068-2-11, 30 days

Ingress Protection Test Method

IEC 60529:2001, IP67

Packaging and Weights

Included

Mounting hardware

Volume

6.5 L

Weight, net

8 kg | 17.637 lb

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

* Footnotes

License Band, LNA

License Bands that have RxUplink amplification