Dual Band Tower Mounted Amplifier, 1800/2100 MHz with 1400 MHz bypass, 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
- Designed for network modernization application, introduction of LTE1400 on existing site
- TMA with 1452-1492 MHz bypass
- 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**

175 mm | 6.89 in

**Depth**

98 mm | 3.858 in

**Mounting Pipe Diameter Range**

50–120 mm
Outline Drawing

Electrical Specifications

License Band, Band Pass
SDL 1400

License Band, LNA
DCS 1800  |  IMT 2100  |  IMT 2600

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy
Yes

Lightning Surge Current
10 kA

Lightning Surge Current Waveform
8/20 waveform

Voltage
7–30 Vdc

Alarm Current, CWA Mode
190 mA ±15 mA
### 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>
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<tr>
<th>Sub-module</th>
<th>1</th>
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<td>License Band</td>
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<td>DCS 1800, LNA</td>
<td>IMT 2100, LNA</td>
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</table>

**Return Loss - Bypass Mode, typical, dB**
16

### Electrical Specifications Rx (Uplink)

**Frequency Range, MHz**
1710–1785

**Bandwidth, MHz**
75

**Gain, nominal, dB**
12

**Noise Figure, typical, dB**
1.7

**Output IP3, minimum, dBm**
12

**Return Loss, minimum, dB**
18

**Insertion Loss - Bypass Mode, typical, dB**
2.5

### Electrical Specifications Tx (Downlink)

**Frequency Range, MHz**
1805–1880

**Bandwidth, MHz**
60

**Insertion Loss, typical, dB**
0.3

**Return Loss, minimum, dB**
18

**Input Power, RMS, maximum, W**
200

**Input Power, PEP, maximum, W**
1000

**3rd Order PIM, typical, dBc**
-162

**3rd Order PIM Test Method**
Two +43 dBm carriers

### Electrical Specifications, Band Pass

**Frequency Range, MHz**
1452–1492

**Insertion Loss, typical, dB**
0.35
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<td>Return Loss, minimum, dB</td>
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<tr>
<td>Input Power, RMS, maximum, W</td>
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<td>Input Power, PEP, maximum, W</td>
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<td>Two +43 dBm carriers</td>
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Block Diagram

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<tr>
<td>Volume</td>
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<td>Weight, net</td>
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*Footnotes*

- **License Band, Band Pass** | License Bands that are to be passed through with no amplification
- **License Band, LNA**       | License Bands that have RxUplink amplification