

## Full Band UMTS 2100 MHz Dual Tower Mounted Amplifier

- Low Noise Figure
- Solid State By-Pass
- AISG Compliant (Q3 2005)
- IP68 Environmental Rating
- Lightning Protection
- Compact, Rugged Design

The UMTS 2100 MHz DTMA provides uplink amplification at the cell site increasing the receive performance of the base station. Improved receive performance results in fewer dropped calls, lower bit error rate and improved battery life of subscriber devices. This full band UMTS 2100 MHz tower mounted amplifier is also available in single configuration.



### UMTS 2100 DTMA SPECIFICATIONS

#### *Tx Specs*

Frequency Range (MHz)	<b>2110-2170</b>
Bandwidth (MHz)	<b>60</b>
Ripple (dB)	<b>+/-0.10</b>
Insertion Loss (dB)	<b>&lt;0.3</b>
Return Loss (dB) (VSWR)	<b>&gt;18 (&lt;1.29:1)</b>

#### *Rx Specs*

Frequency Range (MHz)	<b>1920-1980</b>
Bandwidth (MHz)	<b>60</b>
Noise Figure (dB)	<b>&lt;1.6</b> <b>1.3 typical</b>
Gain (dB)	<b>12.0 +/-0.9</b>
Output IP3 (dBm)	<b>&gt;+25</b>
Return Loss (dB) (VSWR)	<b>&gt;18 (&lt;1.29:1)</b>
Insertion Loss in By-Pass (dB)	<b>&lt;2.0</b>
Return Loss in By-Pass (dB)	<b>&gt;15</b>

#### *Other Specs*

MTBF (hours)	<b>&gt;500,000</b>
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#### *Accessories*

- PDUs and BIAS-Ts available
- Coverage Kits available – one box solution includes all tower-top units, PDU, BIAS-Ts and cables to equip two BTSs

#### *Mechanical Specs*

Dimensions (mm)	<b>288 x 207 x 77</b>
Weight (kg)	<b>&lt;8</b>
Connectors (BTS, ANT)	<b>7/16 Female</b>

#### *Environmental Specs*

Operating Temp Range (Celsius)	<b>-40 to +65</b>
Enclosure Protection	<b>IP 68</b>
Lightning Protection	<b>YES</b>

#### *System Specs*

Channel Rejection (dB)	<b>&gt;45</b>
Intermodulation (dBm)	<b>&lt;-110*</b>
DC Supply (Vdc)	<b>+10 to +15</b>
* 2 Tx carriers +43 dBm each, IMD in Rx band	

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