

Dual Band Tower Mounted Amplifier, 2100//2600, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET conector, 4.3-10 connectors (2 device with 2 sub-units each)

- New 4.3-10 connectors for improved PIM performance and size reduction
- Industry leading PIM performance
- Designed to boost UP-Link Coverage and KPIs
- 2 input ports and 2 output ports
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- RET interface to control antenna RET actuators with AISG standard
- Single AISG with 1 RET connector
- Automatic LNA by-pass function
- Built in lightning protection
- 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

MountingPole | WallMounting Pipe HardwareBand clamps (2)RF Connector Interface4.3-10 Female

Dimensions

 Height
 203 mm | 7.992 in

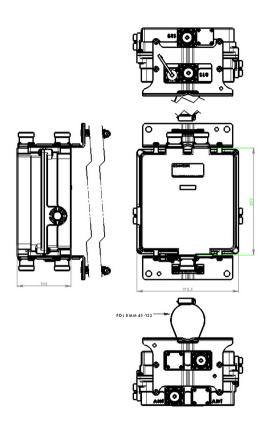
 Width
 192.5 mm | 7.579 in

 Depth
 102 mm | 4.016 in

Mounting Pipe Diameter Range 50–120 mm

Outline Drawing





Electrical Specifications

License Band, LNA 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 ±10 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

Sub-module	1 2	1 2
Branch	1	1
Port Designation	ANT	ANT
License Band	IMT 2100, LNA	IMT 2600, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	14	14

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	1920-1980	2500-2570
Bandwidth, MHz	60	70
Gain, nominal, dB	12	12
Gain Tolerance, dB	±1	±1
Noise Figure, typical, dB	1.5	1.8
Group Delay Variation, maximum, ns	12	10
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	30	40
Return Loss, minimum, dB	17	18
Insertion Loss - Bypass Mode, typical, dB	3	3

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	2110-2170	2620-2690
Bandwidth, MHz	60	70
Insertion Loss, maximum, dB	0.6	0.6
Insertion Loss, typical, dB	0.5	0.5
Group Delay Variation, maximum, ns	6	3
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	10	12
Return Loss, minimum, dB	17	18
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, maximum, dBc	-160	-153

Page 3 of 6

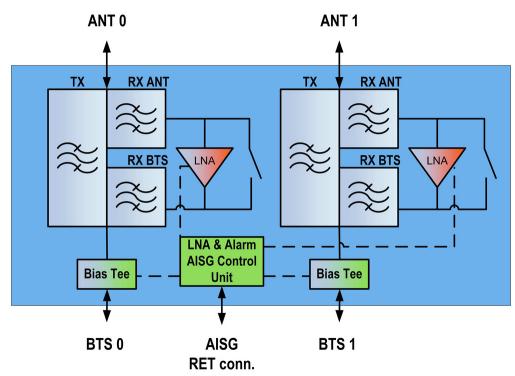


3rd Order PIM Test Method

Two +43 dBm carriers

Two +43 dBm carriers

Block Diagram



Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$

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 4.1 L

Weight, net 6.5 kg | 14.33 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

* Footnotes



Page 5 of 6

License Band, LNA

License Bands that have RxUplink amplification

