

Quad Dual Band Tower Mounted Amplifier, 1800//2100 MHz, 12 dB, 4 BTS & 4 ANT ports, AISG with 1 RET connector per TMA (2 device 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
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 250 mA
- Designed to boost UP-Link Coverage and KPIs
- Quad configuration, 4x4 MIMO ready
- 4 input ports and 4 output ports

Product Classification

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

General Specifications

Color Gray
Modularity 2-Twin

Mounting Pole | Wall

Mounting Pipe HardwareBand clamps (2)RF Connector Interface4.3-10 Female

Dimensions

 Height
 212 mm | 8.346 in

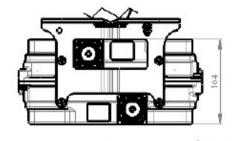
 Width
 225 mm | 8.858 in

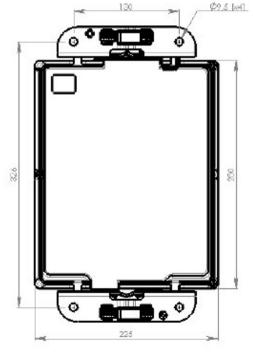
 Depth
 280 mm | 11.024 in

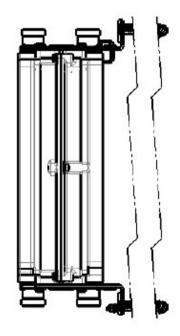
Mounting Pipe Diameter Range 50-120 mm



Outline Drawing







Electrical Specifications

License Band, LNA DCS 1800 | IMT 2100

Electrical Specifications, dc Power/Alarm

dc Switching/RedundancyYesLightning Surge Current10 kA

Lightning Surge Current Waveform 8/20 waveform

Voltage 7–30 Vdc

Alarm Current, CWA Mode 250 mA ±15 mA

Electrical Specifications, AISG



AISG Connector

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	DCS 1800, LNA	IMT 2100, LNA

Return Loss - Bypass Mode, typical, dB 15

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	1710-1785	1920-1980
Bandwidth, MHz	75	60
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.5	1.5
Group Delay Variation, maximum, ns	30	16
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	100	80
Return Loss, minimum, dB	18	18
Insertion Loss - Bypass Mode, typical, dB	2	2

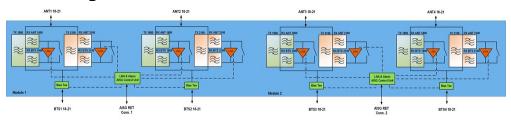
Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1805-1880	2110-2170
Bandwidth, MHz	75	60
Insertion Loss, typical, dB	0.4	0.4
Group Delay Variation, maximum, ns	10	4
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	45	25
Return Loss, minimum, dB	18	18
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Page 3 of 4



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 MethodIEC 60068-2-11, 30 daysIngress Protection Test MethodIEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware

Volume 13.4 L

Weight, net 15 kg | 33.069 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

