

E14R00P08



Tower Mounted Amplifier, Dual UMTS 2100 with AISG, with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed to boost UP-Link Coverage and KPIs
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 250 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
- 1 device with 2 sub-units
- Connectors "in line"
- 2 input ports and 2 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 Hardware Band clamps (2)

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

Height 188 mm | 7.402 in

Width 170 mm | 6.693 in

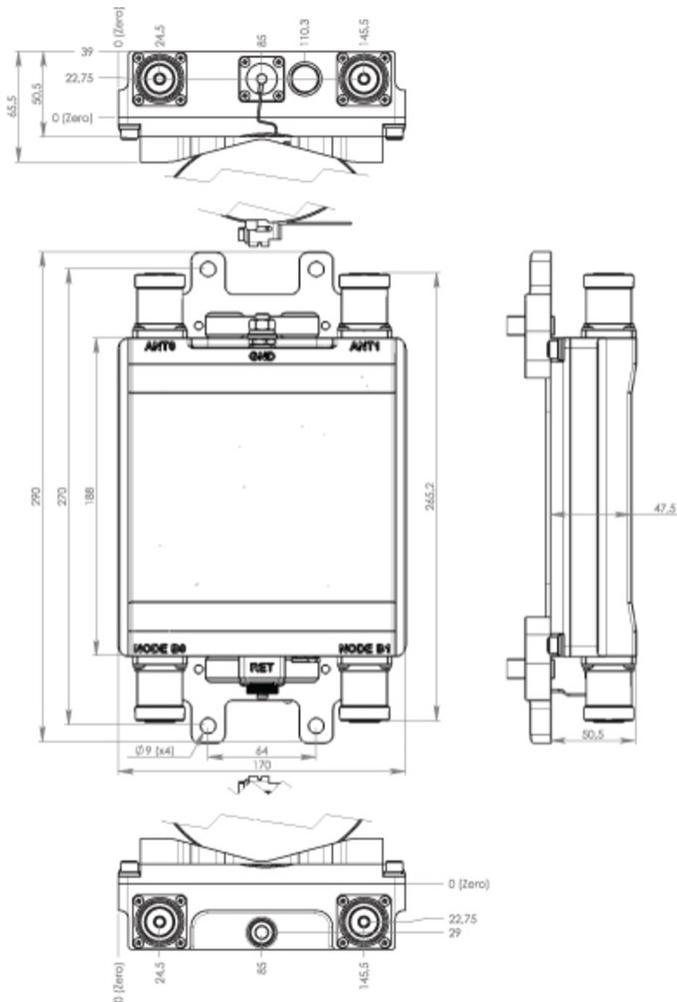
Depth 50 mm | 1.969 in

Ground Screw Diameter 8 mm | 0.315 in

Mounting Pipe Diameter Range 40–160 mm

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Outline Drawing



Electrical Specifications

License Band, LNA IMT 2100

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes

Lightning Surge Current 10 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Current at Voltage 100 mA @ 12 V

Operating Current Tolerance ± 15 mA

Voltage 7–30 Vdc

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Alarm Current, CWA Mode 250 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

Sub-module 1 | 2

Branch 1

Port Designation ANT

License Band IMT 2100, LNA

Return Loss - Bypass Mode, typical, dB 19

TX Band Rejection, minimum, dB 80

Electrical Specifications Rx (Uplink)

Frequency Range, MHz 1920–1980

Bandwidth, MHz 60

Gain, nominal, dB 12

Gain Tolerance, dB ±1

Noise Figure, maximum, dB 1.4

Noise Figure, typical, dB 1.2

Group Delay Variation, maximum, ns 12

Group Delay Variation Bandwidth, MHz 5

Total Group Delay, maximum, ns 60

Output IP3, minimum, dBm 24

Return Loss, minimum, dB 18

Insertion Loss - Bypass Mode, typical, dB 3.2

Electrical Specifications Tx (Downlink)

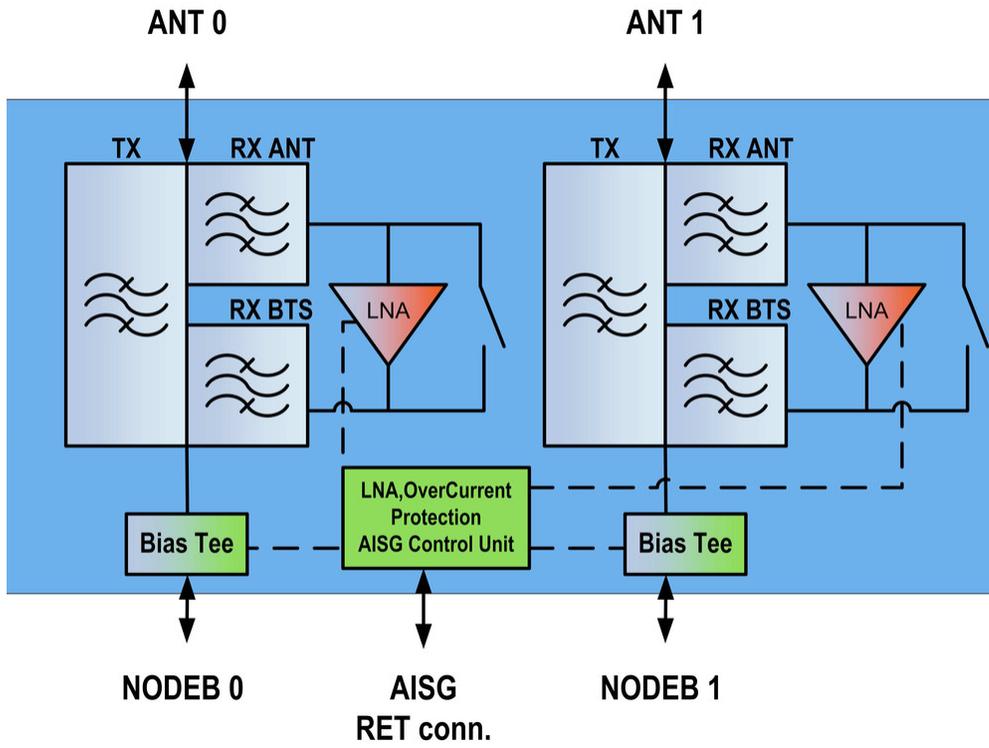
Frequency Range, MHz 2110–2170

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Bandwidth, MHz	60
Insertion Loss, maximum, dB	0.4
Insertion Loss Ripple, maximum, dB	0.1
Group Delay Variation, maximum, ns	3
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	18
Return Loss, minimum, dB	18
RX Band Rejection, minimum, dB	50
Input Power, RMS, maximum, W	160
Input Power, PEP, maximum, W	2500
3rd Order PIM, typical, dBc	-160

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Block Diagram



Material Specifications

Finish Painted

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 1.6 L

Weight, net 3.3 kg | 7.275 lb

Regulatory Compliance/Certifications

Agency **Classification**

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ISO 9001:2015

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

* Footnotes

License Band, LNA

License Bands that have RxUplink amplification