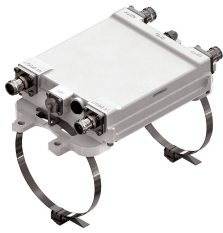


E14R00P07



Tower Mounted Amplifier, Dual UMTS 2100 with AISG, 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 190 mA
- Designed to boost UP-Link Coverage and KPIs
- 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 Medium neck

Dimensions

Height 188 mm | 7.402 in

Width 170 mm | 6.693 in

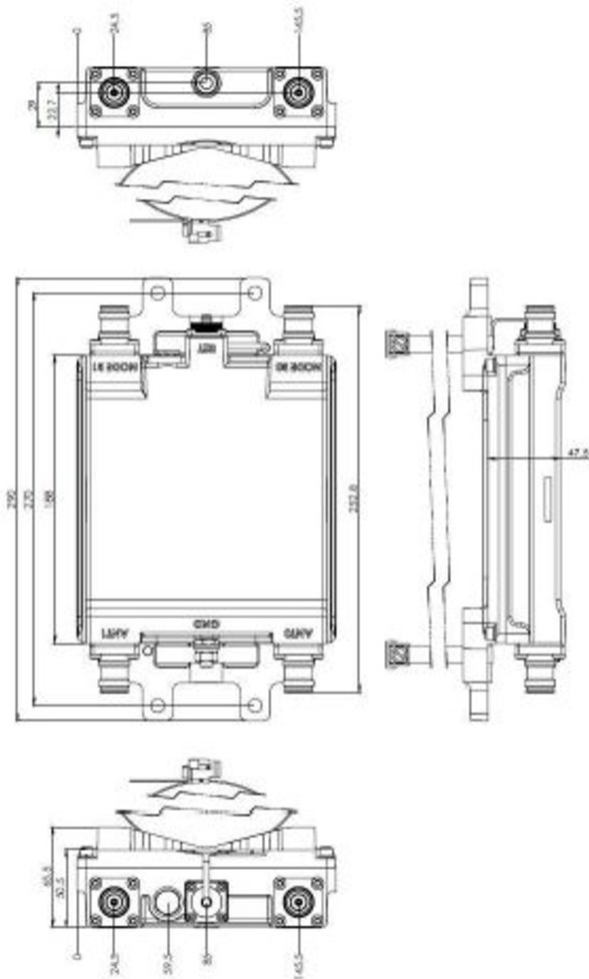
Depth 50 mm | 1.969 in

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 185 mA \pm 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
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 \pm 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
Return Loss, minimum, dB 18
Insertion Loss - Bypass Mode, typical, dB 3.2

Electrical Specifications Tx (Downlink)

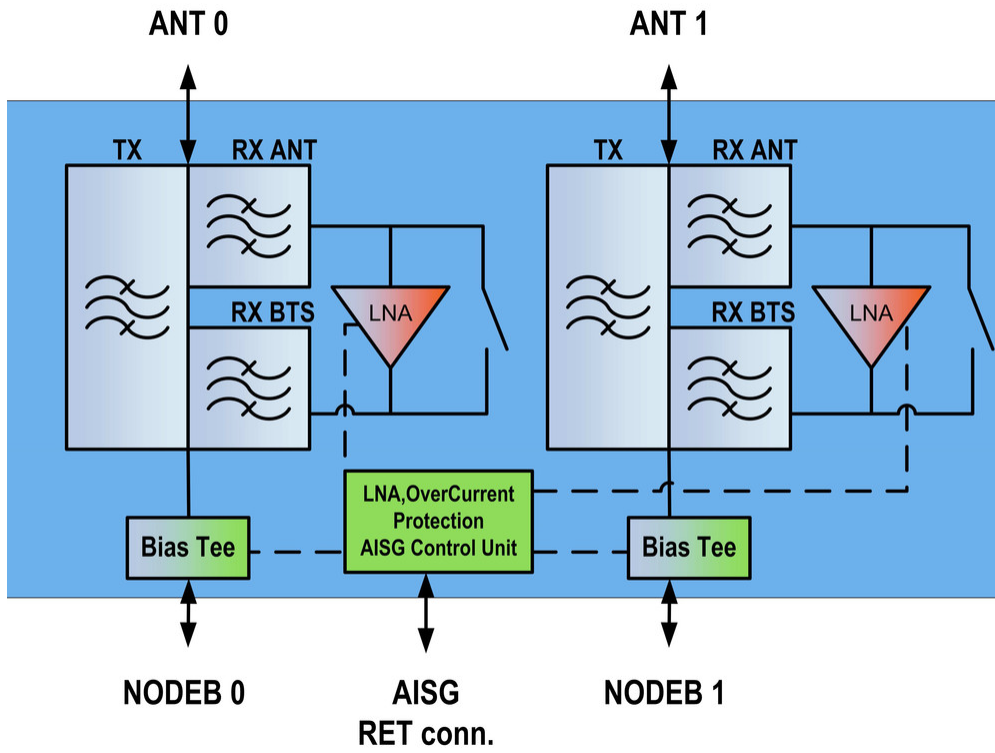
Frequency Range, MHz 2110–2170
Bandwidth, MHz 60

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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**

E14R00P07

ISO 9001:2015

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

* Footnotes

License Band, LNA

License Bands that have RxUplink amplification