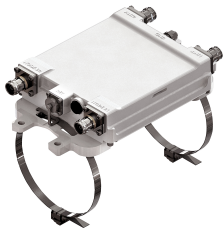


# E14R00P07

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## 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

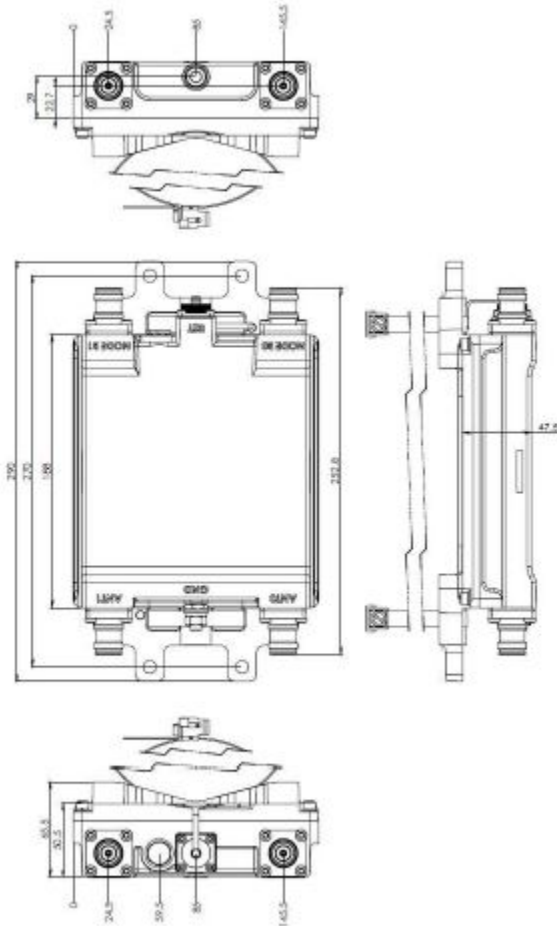
**Depth** 50 mm | 1.969 in

**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

<b>dc Switching/Redundancy</b>	Yes
<b>Lightning Surge Current</b>	10 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform
<b>Operating Current at Voltage</b>	100 mA @ 12 V
<b>Operating Current Tolerance</b>	±15 mA
<b>Voltage</b>	7–30 Vdc
<b>Alarm Current, CWA Mode</b>	185 mA ±10 mA

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## Electrical Specifications, AISG

<b>AISG Connector</b>	8-pin DIN Female
<b>AISG Connector Standard</b>	IEC 60130-9
<b>Protocol</b>	AISG 2.0
<b>Voltage, AISG Mode</b>	10–30 Vdc

## Electrical Specifications

<b>Sub-module</b>	<b>1   2</b>
<b>Branch</b>	1
<b>Port Designation</b>	ANT
<b>License Band</b>	IMT 2100, LNA
<b>Return Loss - Bypass Mode, typical, dB</b>	19
<b>TX Band Rejection, minimum, dB</b>	80

## Electrical Specifications Rx (Uplink)

<b>Frequency Range, MHz</b>	<b>1920–1980</b>
<b>Bandwidth, MHz</b>	60
<b>Gain, nominal, dB</b>	12
<b>Gain Tolerance, dB</b>	±1
<b>Noise Figure, maximum, dB</b>	1.4
<b>Noise Figure, typical, dB</b>	1.2
<b>Group Delay Variation, maximum, ns</b>	12
<b>Group Delay Variation Bandwidth, MHz</b>	5
<b>Total Group Delay, maximum, ns</b>	60
<b>Return Loss, minimum, dB</b>	18
<b>Insertion Loss - Bypass Mode, typical, dB</b>	3.2

## Electrical Specifications Tx (Downlink)

<b>Frequency Range, MHz</b>	<b>2110–2170</b>
<b>Bandwidth, MHz</b>	60
<b>Insertion Loss, maximum, dB</b>	0.4

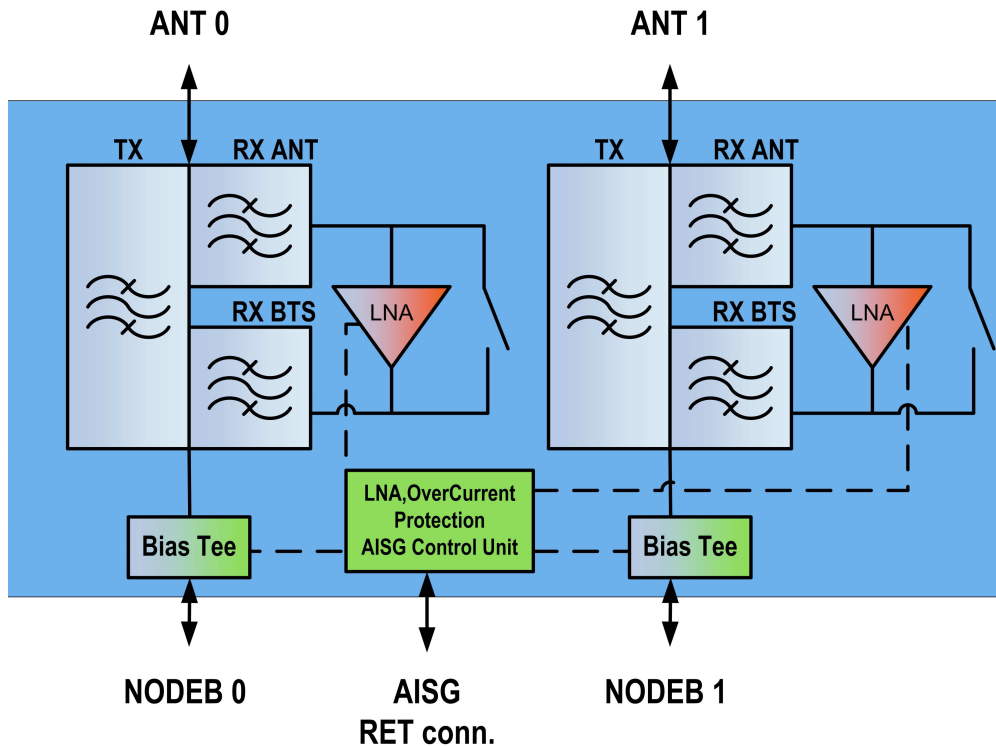
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<b>Insertion Loss Ripple, maximum, dB</b>	0.1
<b>Group Delay Variation, maximum, ns</b>	3
<b>Group Delay Variation Bandwidth, MHz</b>	5
<b>Total Group Delay, maximum, ns</b>	18
<b>Return Loss, minimum, dB</b>	18
<b>RX Band Rejection, minimum, dB</b>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