

E15R02P11



Tower Mounted Amplifier, Dual LTE 800 with AISG

OBSOLETE

This product was discontinued on: July 1, 2022

Replaced By:

E14R50P01

Tower Mounted Amplifier, Twin 800MHz with AISG 2.0, with 4.3-10 connectors

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 7-16 DIN Female

RF Connector Interface Body Style Long neck

Dimensions

Height 299 mm | 11.772 in

Width 295 mm | 11.614 in

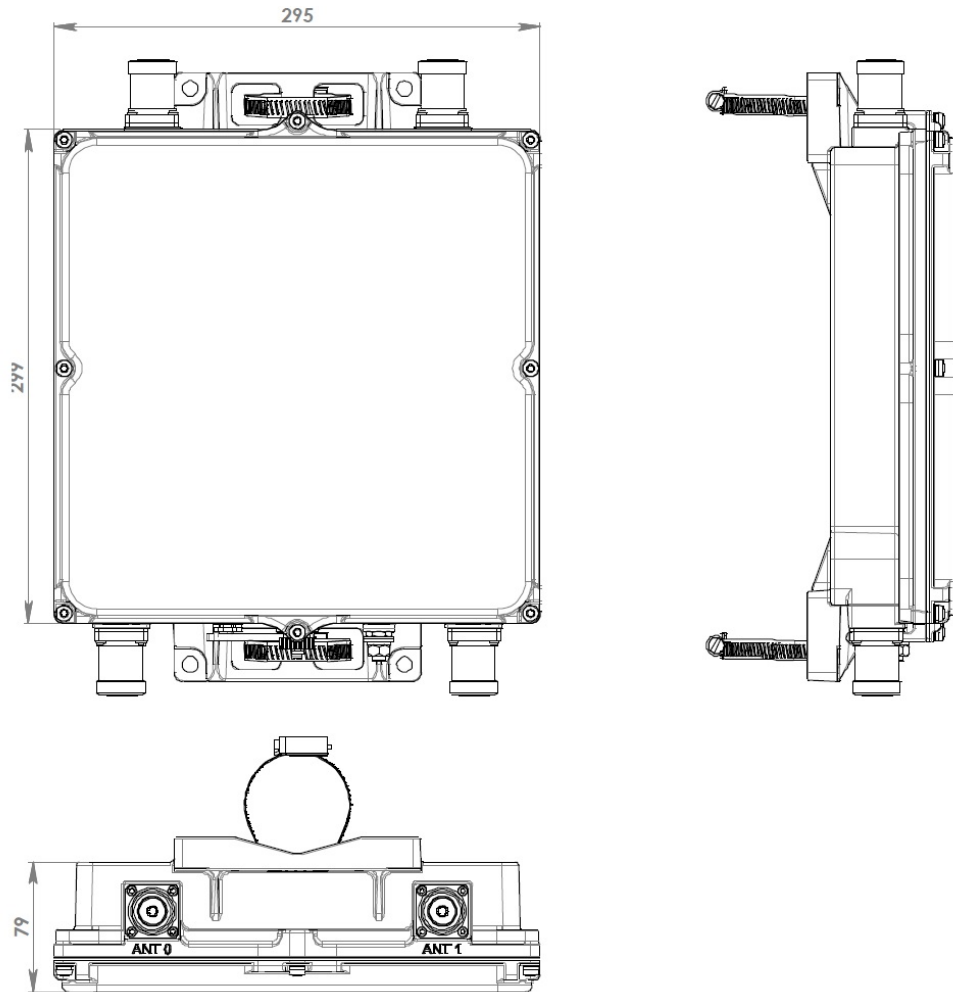
Depth 79 mm | 3.11 in

Ground Screw Diameter 8 mm | 0.315 in

Mounting Pipe Diameter Range 50–120 mm

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Outline Drawing



Electrical Specifications

License Band, LNA EDD 800

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
Lightning Surge Current	3 kA
Lightning Surge Current Waveform	10/350 waveform
Operating Current at Voltage	135 mA @ 12 Vdc
Operating Current Tolerance	±15 mA
Voltage	7–30 Vdc

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Voltage, CWA Mode	7–18 Vdc
Alarm Current, CWA Mode	185 mA ±15 mA

Electrical Specifications, AISG

AISG Connector	8-pin DIN Female
AISG Connector Standard	IEC 60130-9
Default Protocol	AISG 2.0
Protocol	AISG 1.1 AISG 2.0
Voltage, AISG Mode	10–30 Vdc

Electrical Specifications

Sub-module	1 2
Branch	1
Port Designation	ANT
License Band	EDD 800, LNA
Return Loss - Bypass Mode, typical, dB	14
TX Band Rejection, minimum, dB	80

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	832–862
Bandwidth, MHz	30
Gain, nominal, dB	12
Gain Tolerance, dB	±1
Noise Figure, maximum, dB	1.6
Noise Figure, typical, dB	1.5
Group Delay Variation, maximum, ns	80
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	120
Output IP3, minimum, dBm	10
Return Loss, minimum, dB	18
Insertion Loss - Bypass Mode, typical, dB	1.8

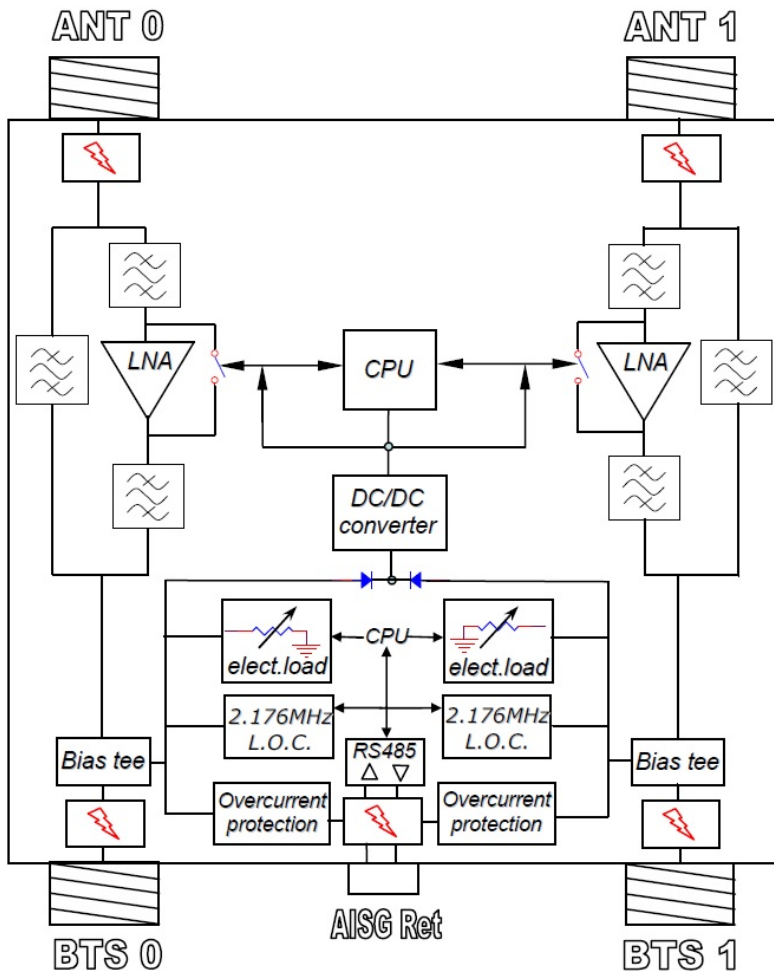
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Electrical Specifications Tx (Downlink)

Frequency Range, MHz	791–821
Bandwidth, MHz	30
Insertion Loss, maximum, dB	0.6
Insertion Loss Ripple, maximum, dB	0.25
Group Delay Variation, maximum, ns	25
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	70
Return Loss, minimum, dB	18
RX Band Rejection, minimum, dB	45
Input Power, RMS, maximum, W	160
Input Power, PEP, maximum, W	2500
3rd Order PIM, maximum, dBc	-158
3rd Order PIM Test Method	Two +43 dBm carriers

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Block Diagram



Material Specifications

Finish Painted

Mechanical Specifications

Wind Loading @ Velocity, maximum 55.0 N @ 115 km/h (12.4 lbf @ 115 km/h)

Wind Speed, maximum 198 km/h (123 mph)

Environmental Specifications

Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F)

Relative Humidity Up to 100%

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Corrosion Test Method IEC 60068-2-11, 30 days

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware

Volume 7 L

Weight, net 9.4 kg | 20.723 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015



Classification

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

* Footnotes

License Band, LNA License Bands that have RxUplink amplification