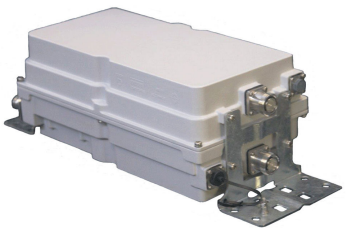
E15R02P23



Dual Band Tower Mounted Amplifier, 800//900 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device with 2 sub-units)

OBSOLETE

This product was discontinued on: July 1, 2022

Replaced By:

E16R30P02	Dual Band Tower Mounted Amplifier, 800//900 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device with 2 sub-units), 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

Dimensions

Height	375 mm | 14.764 in
Width	199 mm | 7.835 in
Depth	150 mm | 5.906 in
Mounting Pipe Diameter Range	50–120 mm

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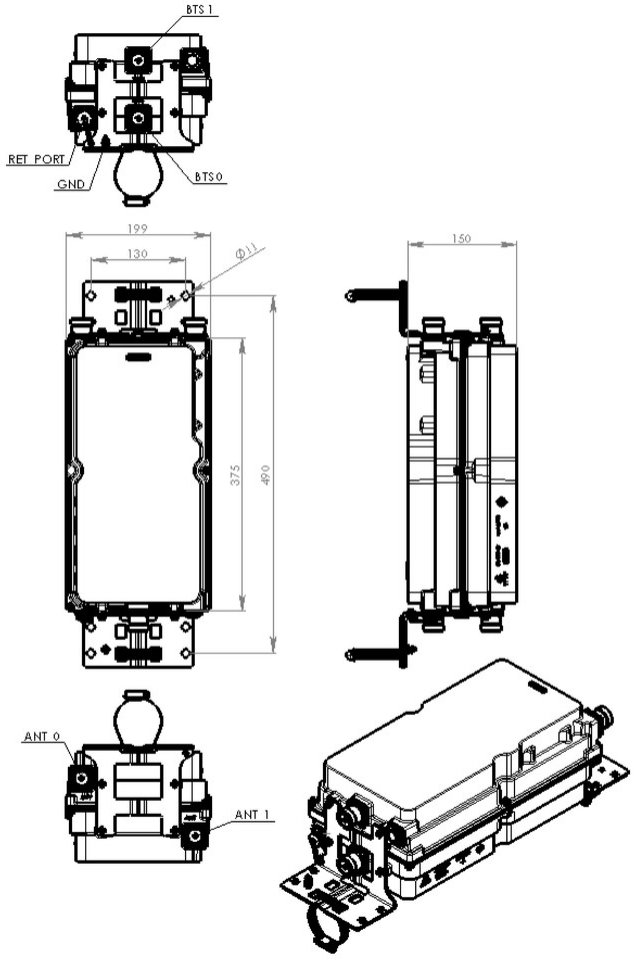
Outline Drawing



Electrical Specifications

License Band, LNA	CEL 900 | EDD 800

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform
Voltage	7–30 Vdc
Alarm Current, CWA Mode	190 mA ±10 mA

Electrical Specifications, AISG

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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**	**1 | 2**
Branch	1	1
Port Designation	ANT	ANT
License Band	EDD 800, LNA	CEL 900, LNA

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	**832–862**	**880–915**
Bandwidth, MHz	30	35
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.3	1.4
Group Delay Variation, maximum, ns	120	105
Group Delay Variation Bandwidth, MHz	5	5
Return Loss, minimum, dB	18	18

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	**791–821**	**925–960**
Bandwidth, MHz	30	35
Insertion Loss, typical, dB	0.6	0.6
Group Delay Variation, maximum, ns	30	30
Group Delay Variation Bandwidth, MHz	5	5
Return Loss, minimum, dB	18	18
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, maximum, dBc	-153	-153
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

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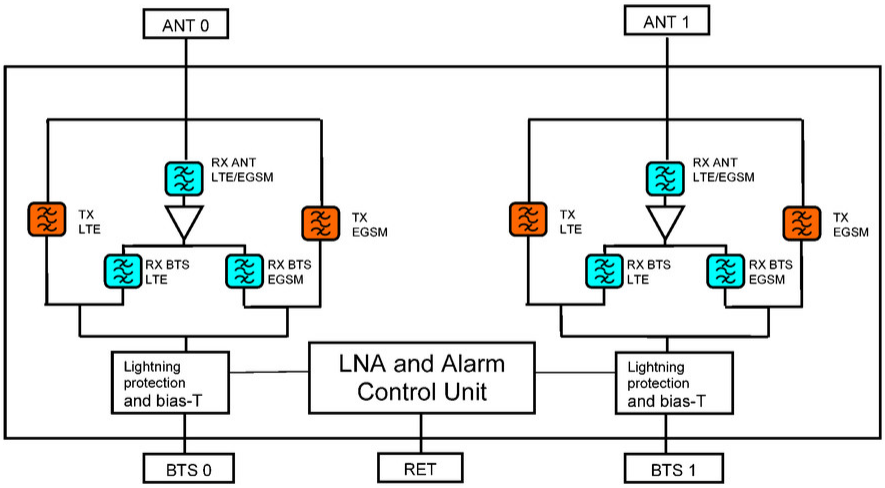
Block Diagram

SCHEMATIC DIAGRAM



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	11.2 L
Weight, net	11.8 kg | 26.015 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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ISO 9001:2015

* Footnotes

License Band, LNA License Bands that have RxUplink amplification