

E15S08P71



Tower Mounted Amplifier, Dual UMTS 2100 with AISG

- Firmware upgradeable to AISG 2.0

OBSOLETE

This product was discontinued on: June 30, 2022

Replaced By:

E14R00P07

Tower Mounted Amplifier, Dual UMTS 2100 with AISG, 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 190 mm | 7.48 in

Width 170 mm | 6.693 in

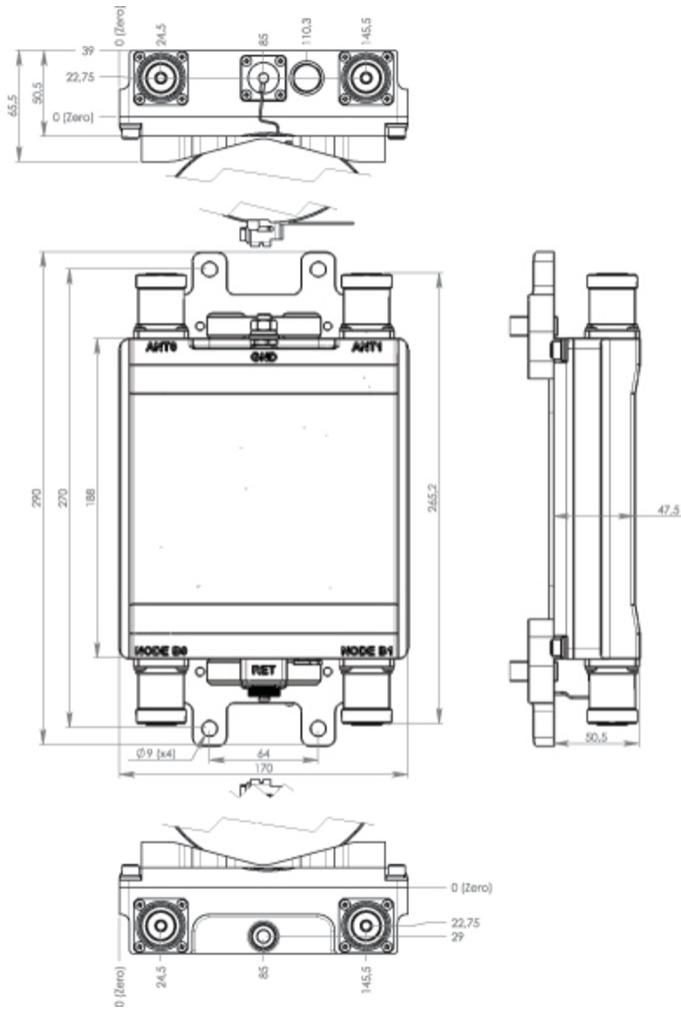
Depth 50 mm | 1.969 in

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 ±10 mA

Electrical Specifications, AISG

AISG Connector 8-pin DIN Female
AISG Connector Standard IEC 60130-9
Protocol AISG 1.1
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)

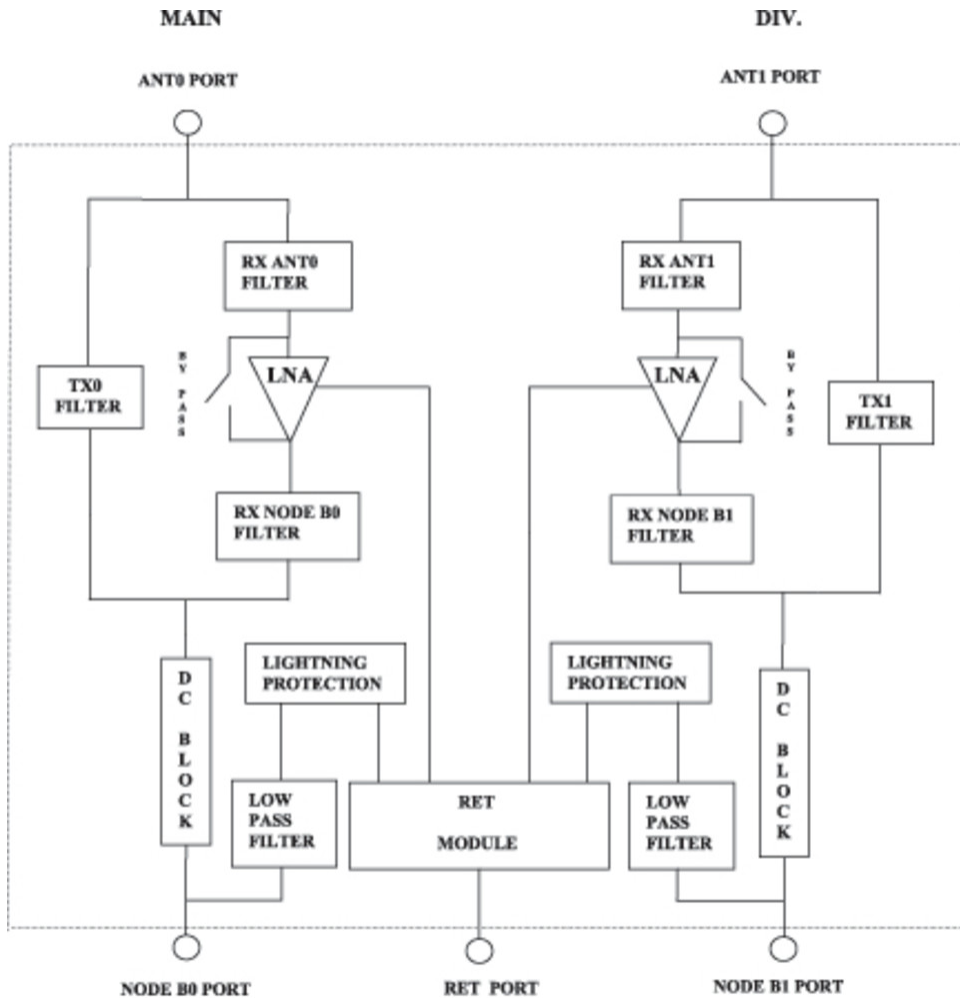
Frequency Range, MHz 2110–2170

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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, maximum, dBc	-153
3rd Order PIM Test Method	Two +43 dBm carriers

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Block Diagram



Material Specifications

Finish Painted

Mechanical Specifications

Wind Speed, maximum 198 km/h | 123.031 mph

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

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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

ISO 9001:2015



Classification

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

* Footnotes

License Band, LNA License Bands that have RxUplink amplification