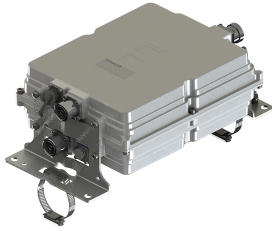


E15S02P56



Dual Band Tower Mounted Amplifier, 1800//2100 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device with 2 sub-units)

- Industry leading PIM performance
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- 2 input ports and 2 output ports
- Designed to boost UP-Link Coverage and KPIs

OBSOLETE

This product was discontinued on: July 1, 2022

Replaced By:

E16S02P56

Dual Band Tower Mounted Amplifier, 1800//2100 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device with 2 sub-units)

Product Classification

Product Type 1-BTS:1-ANT (Uniplex) | Tower mounted amplifier

General Specifications

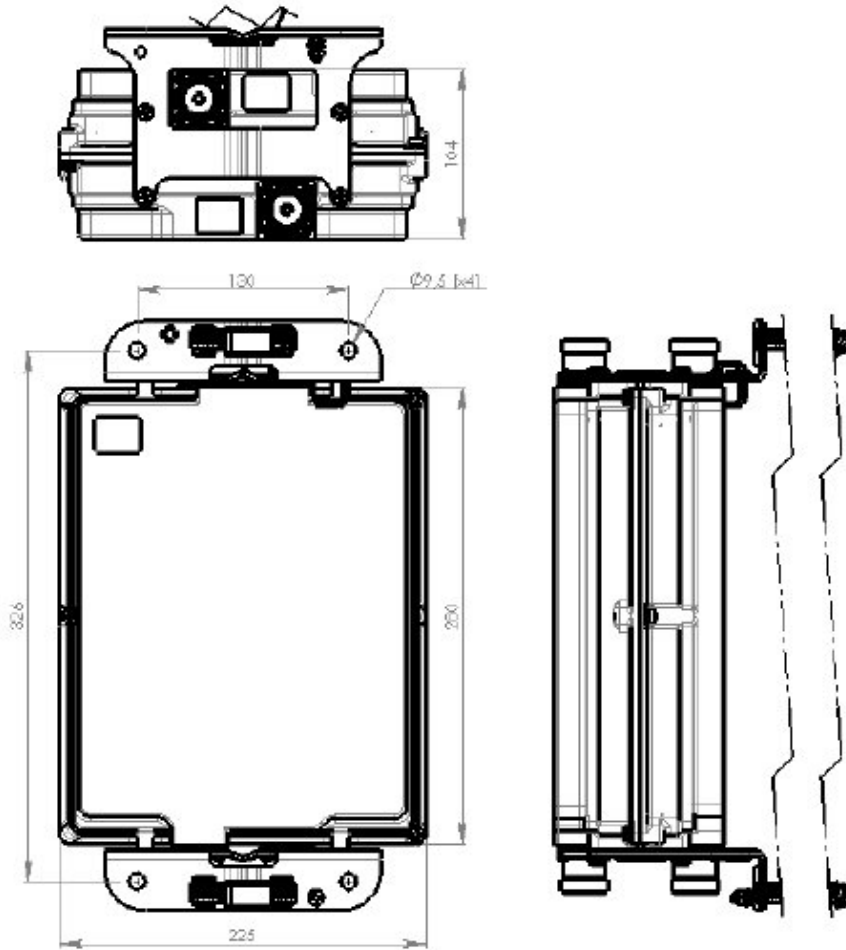
Color Gray
Modularity 2-Twin
Mounting Pole | Wall
Mounting Pipe Hardware Band clamps (2)
RF Connector Interface 7-16 DIN Female

Dimensions

Height 280 mm | 11.024 in
Width 225 mm | 8.858 in
Depth 104 mm | 4.094 in
Mounting Pipe Diameter Range 50–120 mm

E15S02P56

Outline Drawing



Electrical Specifications

License Band, LNA DCS 1800 | IMT 2100

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 \pm 15 mA |

Electrical Specifications, AISG

E15S02P56

| | |
|--------------------------------|------------------|
| 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 | DCS 1800, LNA | IMT 2100, LNA |
| Return Loss - Bypass Mode, typical, dB | 15 | 15 |

Electrical Specifications Rx (Uplink)

| | | |
|--|------------------|------------------|
| Frequency Range, MHz | 1710–1785 | 1920–1980 |
| Bandwidth, MHz | 75 | 60 |
| Gain, nominal, dB | 12 | 12 |
| Noise Figure, typical, dB | 1.5 | 1.5 |
| Group Delay Variation, maximum, ns | 30 | 16 |
| Group Delay Variation Bandwidth, MHz | 5 | 5 |
| Total Group Delay, maximum, ns | 100 | 80 |
| Output IP3, minimum, dBm | 20 | 20 |
| Return Loss, minimum, dB | 18 | 18 |
| Insertion Loss - Bypass Mode, typical, dB | 2 | 2 |

Electrical Specifications Tx (Downlink)

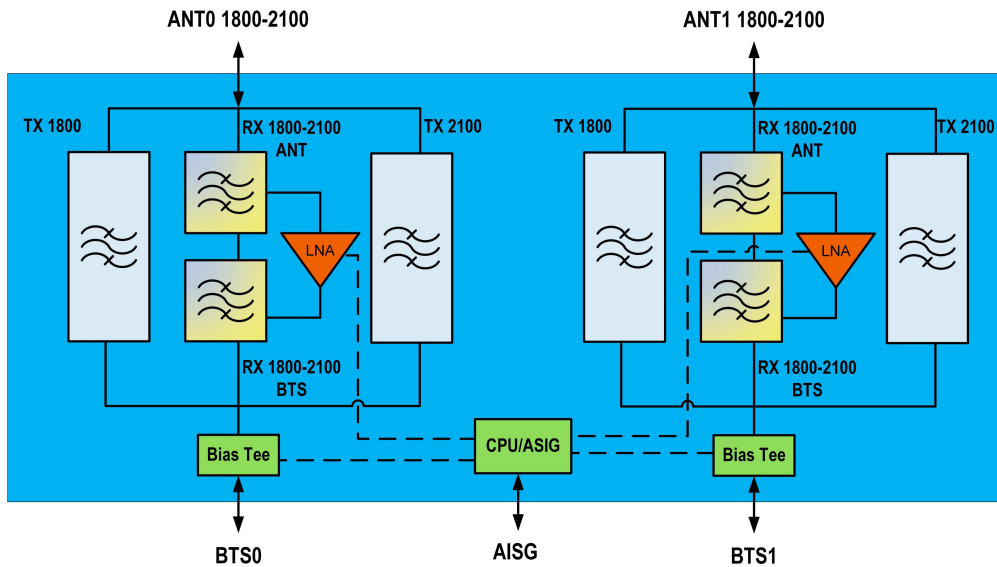
| | | |
|---|------------------|------------------|
| Frequency Range, MHz | 1805–1880 | 2110–2170 |
| Bandwidth, MHz | 75 | 60 |
| Insertion Loss, typical, dB | 0.4 | 0.4 |
| Group Delay Variation, maximum, ns | 10 | 4 |
| Group Delay Variation Bandwidth, MHz | 5 | 5 |
| Total Group Delay, maximum, ns | 45 | 25 |
| Return Loss, minimum, dB | 18 | 18 |
| Input Power, RMS, maximum, W | 200 | 200 |
| Input Power, PEP, maximum, W | 2000 | 2000 |
| 3rd Order PIM, typical, dBc | -160 | -160 |

E15S02P56

3rd Order PIM Test Method

Two +43 dBm carriers Two +43 dBm carriers

Block 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 | 6.5 L |
| Weight, net | 7 kg 15.432 lb |

Regulatory Compliance/Certifications

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



* Footnotes

E15S02P56

License Band, LNA

License Bands that have RxUplink amplification