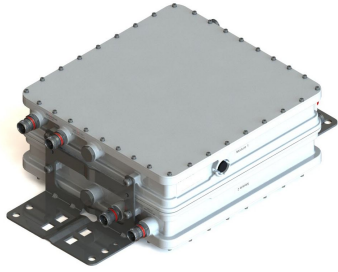


E16Z01P86



Tri Band Tower Mounted Amplifier, 1800/2100/2600 MHz, 12 dB, 2 BTS & 4 ANT ports, AISG with 1 RET connector (3 devices with 2 sub-units each), with 4.3-10 connectors, 698-960 MHz Bypass

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed to boost UP-Link Coverage and KPIs
- 2 input ports and 4 output ports
- 3 devices with 2 sub-units
- TMA is operating in AISG mode
- TMA with 1350-1525 MHz bypass
- TMA with 698-960 MHz bypass

Product Classification

Product Type 2-BTS:4-ANT (Diplex)

General Specifications

Color Gray

Modularity 2-Twin

Mounting Pole | Wall

Mounting Pipe Hardware Band clamps (2)

RF Connector Interface 4.3-10 Female

Dimensions

Height 316 mm | 12.441 in

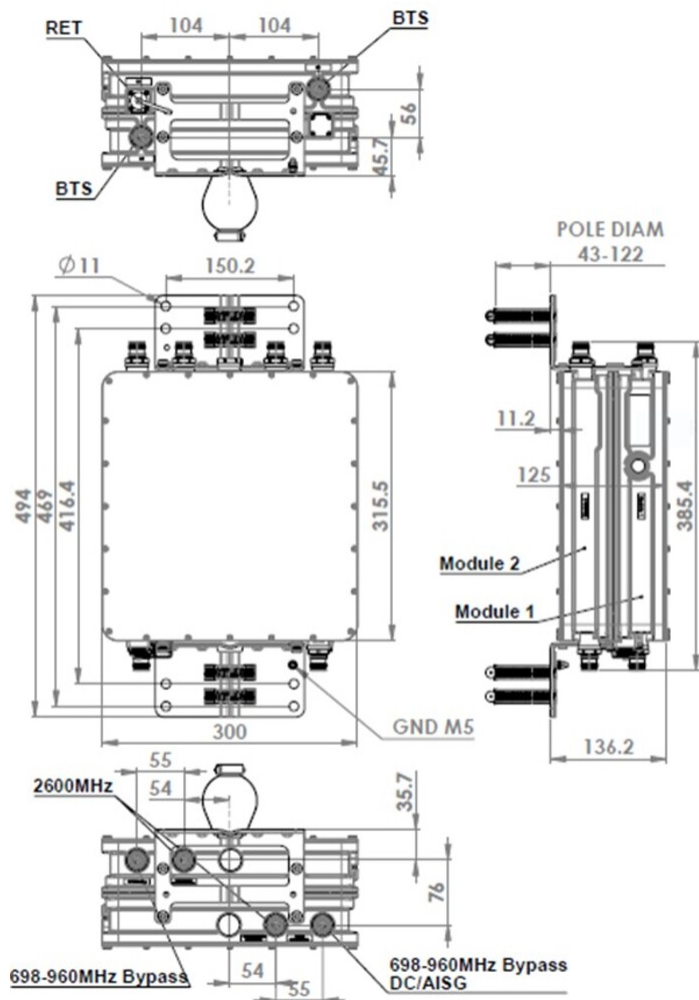
Width 300 mm | 11.811 in

Depth 125 mm | 4.921 in

Mounting Pipe Diameter Range 42.6–122 mm

Outline Drawing

E16Z01P86



Electrical Specifications

License Band, LNA DCS 1800 | IMT 2100 | IMT 2600

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes

Lightning Surge Current 10 kA

Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications, AISG

AISG Connector 8-pin DIN Female

AISG Connector Standard IEC 60130-9

Protocol AISG 2.0

E16Z01P86

Voltage, AISG Mode

10–30 Vdc

Electrical Specifications

| | | | |
|---|---------------|---------------|---------------|
| Sub-module | 1 2 | 1 2 | 1 2 |
| Branch | 1 | 2 | 3 |
| Port Designation | ANT | ANT | ANT |
| License Band | DCS 1800, LNA | IMT 2100, LNA | IMT 2600, LNA |
| Return Loss, typical, dB | 20 | 20 | 20 |
| Return Loss - Bypass Mode, typical, dB | 16 | 16 | 16 |

Electrical Specifications Rx (Uplink)

| | | | |
|--|------------------|------------------|------------------|
| Frequency Range, MHz | 1710–1785 | 1920–1980 | 2500–2570 |
| Bandwidth, MHz | 75 | 60 | 70 |
| Gain, nominal, dB | 12 | 12 | 12 |
| Noise Figure, typical, dB | 1.4 | 1.5 | 1.5 |
| Total Group Delay, typical, ns | 120 | 60 | 60 |
| Insertion Loss - Bypass Mode, typical, dB | 2.2 | 2 | 2.3 |

Electrical Specifications Tx (Downlink)

| | | | |
|---------------------------------------|----------------------|----------------------|----------------------|
| Frequency Range, MHz | 1805–1880 | 2110–2170 | 2620–2690 |
| Bandwidth, MHz | 75 | 60 | 70 |
| Insertion Loss, typical, dB | 0.5 | 0.35 | 0.45 |
| Total Group Delay, typical, ns | 50 | 25 | 30 |
| Return Loss, typical, dB | 20 | 20 | 20 |
| Input Power, RMS, maximum, W | 200 | 200 | 200 |
| Input Power, PEP, maximum, W | 2000 | 2000 | 2000 |
| 3rd Order PIM, typical, dBc | -160 | -160 | -160 |
| 3rd Order PIM Test Method | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers |

Electrical Specifications, Band Pass

| | | |
|---------------------------------------|----------------|------------------|
| Frequency Range, MHz | 698–960 | 1350–1525 |
| Insertion Loss, typical, dB | 0.2 | 0.2 |
| Total Group Delay, typical, ns | 5 | 15 |
| Return Loss, typical, dB | 19 | 20 |
| Input Power, RMS, maximum, W | 200 | 200 |
| Input Power, PEP, maximum, W | 1000 | 1000 |

E16Z01P86

3rd Order PIM, typical, dBc

-160

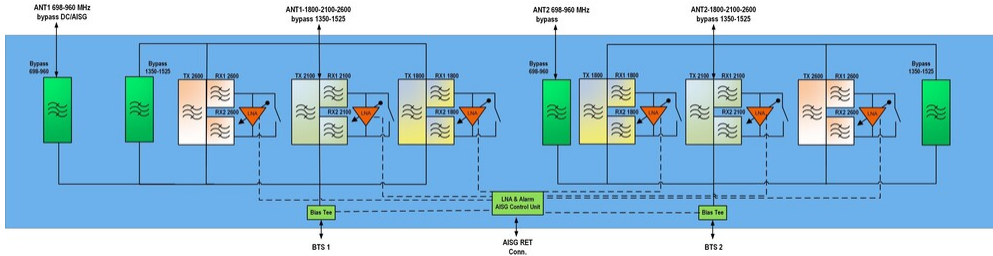
-160

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 | 11.8 L |
| Weight, net | 15.2 kg 33.51 lb |

Regulatory Compliance/Certifications

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



* Footnotes

| | |
|--------------------------|--|
| License Band, LNA | License Bands that have RxUplink amplification |
|--------------------------|--|