E16Z01P87



Tri Band Tower Mounted Amplifier, 1800/2100/2600 MHz, 12 dB, 2 BTS & 6 ANT ports, AISG with 1 RET connector (1 device 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 6 output ports
- 1 device with 2 sub-units
- TMA is operating in AISG mode
- TMA with 1350-1525 MHz bypass
- TMA with 698-960 MHz bypass

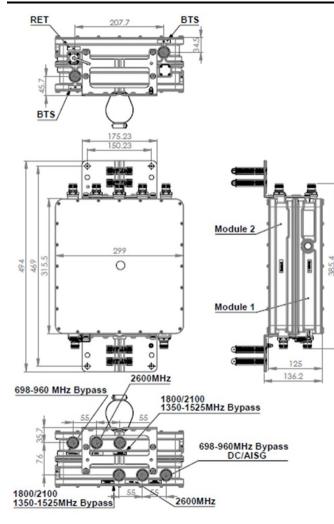
Product Classification

Product Type	2-BTS:6-ANT (Triplex)
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



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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

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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

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3rd Order PIM, typical, dBc

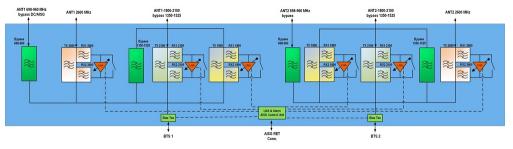
3rd Order PIM Test Method

-160

Two +43 dBm carriers

-160 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	15.4 kg 33.951 lb

Regulatory Compliance/Certifications

Classification

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

* Footnotes

Agency

License Band, LNA License Bands that have RxUplink amplification



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