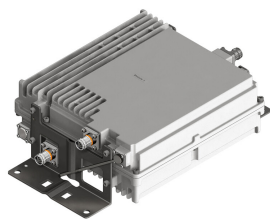


E16Z01P71



Tri Band Tower Mounted Amplifier, 1800/2100/2300 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (3 devices with 2 sub-units each), with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- 2 input ports and 2 output ports
- Designed to boost UP-Link Coverage and KPIs
- 3 devices with 2 sub-units
- Single AISG with 1 RET connector
- Automatic LNA by-pass function
- Connectors “in line”
- Built in lightning protection

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 4.3-10 Female

Dimensions

Height 305 mm | 12.008 in

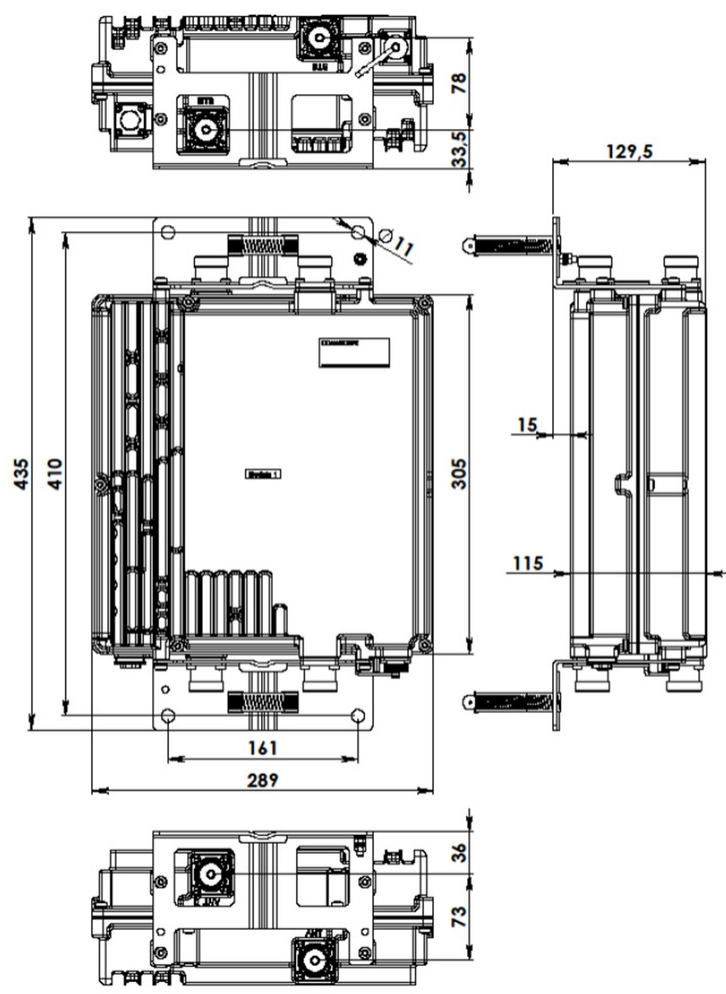
Width 289 mm | 11.378 in

Depth 115 mm | 4.528 in

Mounting Pipe Diameter Range 42.6–122 mm

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Outline Drawing



Electrical Specifications

License Band, Band Pass	TDD 2300
License Band, LNA	DCS 1800 IMT 2100 IMT 2600 TDD 2300

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
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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	TDD 2300, LNA TDD 2300, Band Pass
Return Loss, typical, dB	20	20	20
Return Loss - Bypass Mode, typical, dB	18	18	18

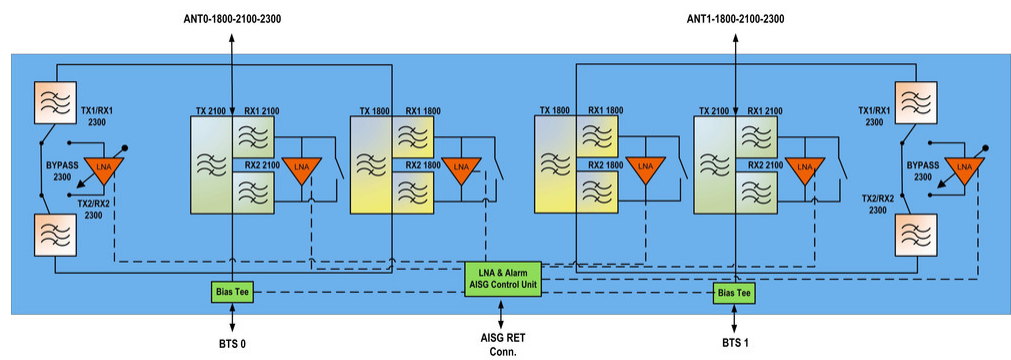
Electrical Specifications Rx (Uplink)

Frequency Range, MHz	1710–1785	1920–1980	2300–2400
Bandwidth, MHz	75	60	100
Gain, nominal, dB	12	12	12
Noise Figure, typical, dB	1.2	1.3	1.8
Total Group Delay, typical, ns	100	70	65
Insertion Loss - Bypass Mode, typical, dB	2	2	1.2

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1805–1880	2110–2170	2300–2400
Bandwidth, MHz	75	60	100
Insertion Loss, typical, dB	0.5	0.4	1.7
Total Group Delay, typical, ns	40	22	58
Return Loss, typical, dB	20	20	18
Input Power, RMS, maximum, W	200	200	50
Input Power, PEP, maximum, W	2000	2000	500
3rd Order PIM, typical, dBc	-155	-155	-155
3rd Order PIM Test Method	Two +43 dBm carriers	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	10 L
Weight, net	15 kg 33.069 lb

Regulatory Compliance/Certifications

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

* Footnotes

License Band, Band Pass	License Bands that are to be passed through with no amplification
License Band, LNA	License Bands that have RxUplink amplification