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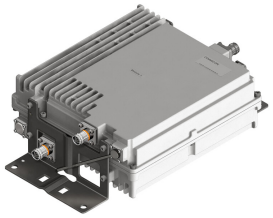

Tri Band Tower Mounted Amplifier, 1800/2100/2300 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (3 devices with 2 sub-units each), with 4.3-10 connectors

- 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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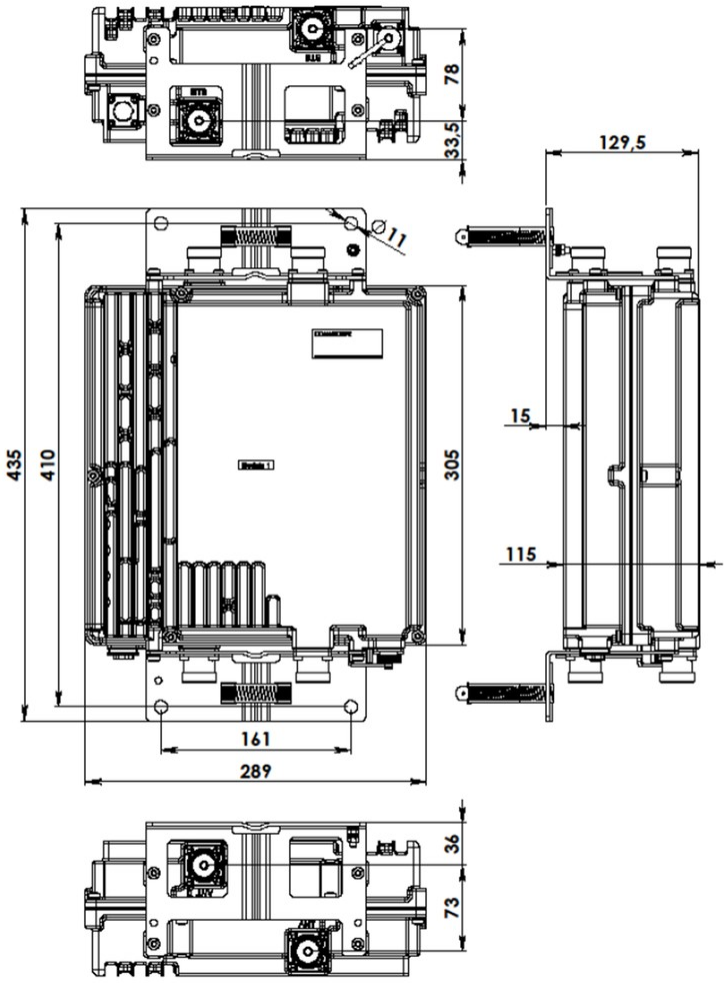
Outline Drawing



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

Electrical Specifications, AISG

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**	**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

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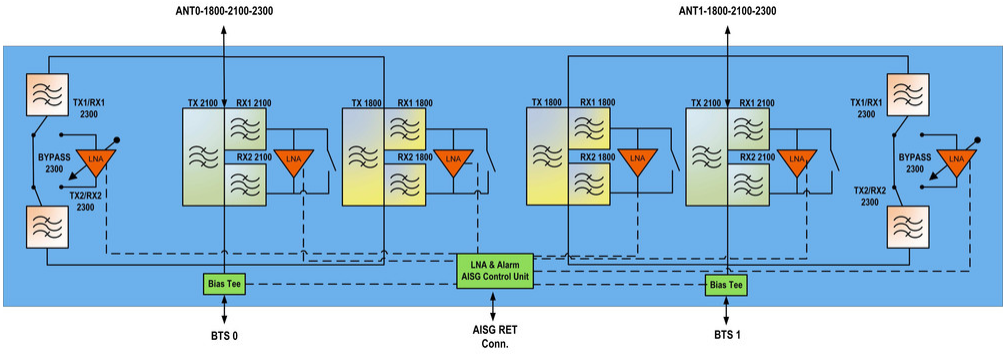

Environmental Specifications

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