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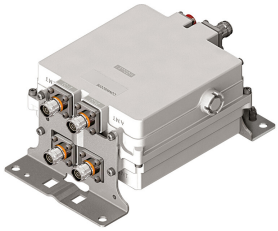

Dual Band Tower Mounted Amplifier, 2100//2600, 12 dB, 2 BTS & 4 ANT ports, AISG with 1 RET connector, with 4.3-10 connectors (1 devices with 2 sub-units each)

- New 4.3-10 connectors for improved PIM performance and size reduction
- Industry leading PIM performance
- Designed to boost UP-Link Coverage and KPIs
- 2 input ports and 4 output ports
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- 1 device with 2 sub-units
- RET interface to control antenna RET actuators with AISG standard
- Single AISG with 1 RET connector
- Automatic LNA by-pass function
- Built in lightning protection
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

Product Classification

Product Type	1-BTS:2-ANT (Diplex) | 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	203 mm | 7.992 in
Width	192.5 mm | 7.579 in
Depth	102 mm | 4.016 in
Mounting Pipe Diameter Range	50–120 mm

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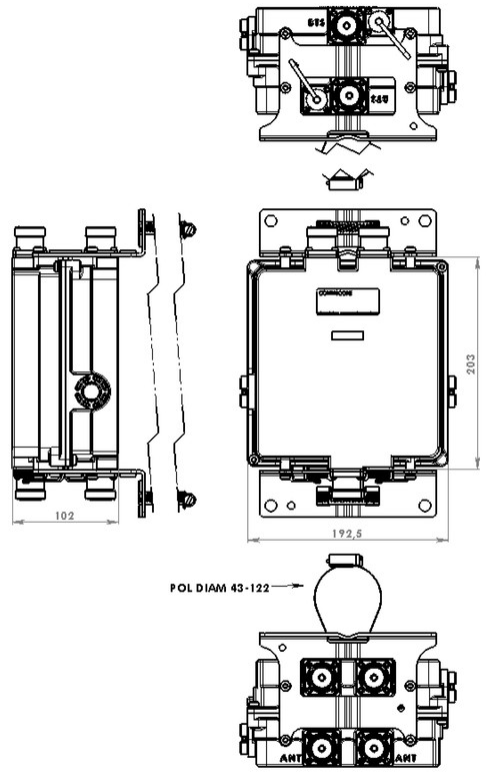
Outline Drawing



Electrical Specifications

License Band, LNA	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
Voltage	7–30 Vdc
Alarm Current, CWA Mode	190 mA ±10 mA

Electrical Specifications, AISG

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AISG Connector	8-pin DIN Female (2)
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	2
Port Designation	ANT 2100	ANT 2600
License Band	IMT 2100, LNA	IMT 2600, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	14	14

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	**1920–1980**	**2500–2570**
Bandwidth, MHz	60	70
Gain, nominal, dB	12	12
Gain Tolerance, dB	±1	±1
Noise Figure, typical, dB	1.5	1.8
Group Delay Variation, maximum, ns	12	10
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	30	40
Output IP3, minimum, dBm	20	20
Return Loss, minimum, dB	17	18
Insertion Loss - Bypass Mode, typical, dB	3	3

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	**2110–2170**	**2620–2690**
Bandwidth, MHz	60	70
Insertion Loss, maximum, dB	0.6	0.6
Insertion Loss, typical, dB	0.5	0.5
Group Delay Variation, maximum, ns	6	3
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	10	12
Return Loss, minimum, dB	17	18
Input Power, RMS, maximum, W	200	200

Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, maximum, dBc	-160	-153
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

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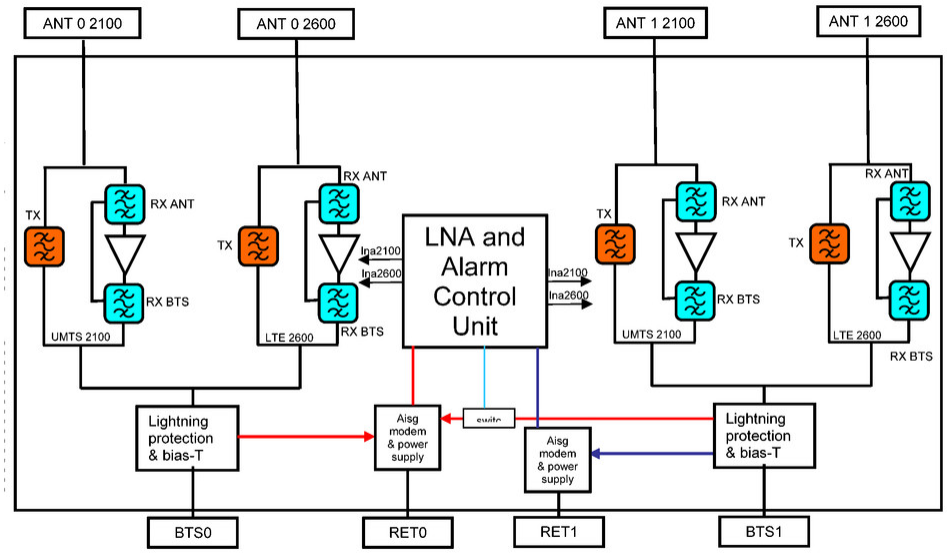
Block Diagram



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	4.1 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

License Band, LNA	License Bands that have RxUplink amplification