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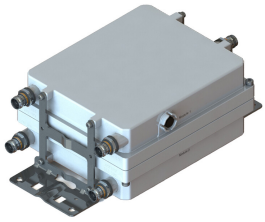

Dual Band Tower Mounted Amplifier, 800/900 MHz, 700MHz Bypass, 12 dB, 2 BTS & 4 ANT ports, AISG with 1 RET connector, with 4.3-10 connectors (1 device with 2 sub-units)

- Designed to boost UP-Link Coverage and KPIs
- 2 input ports and 4 output ports
- 1 device with 2 sub-units
- Single AISG with 1 RET connector
- New 4.3-10 connectors for improved PIM performance and size reduction

Product Classification

Product Type	2-BTS:4-ANT (Diplex) | Tower mounted amplifier

General Specifications

Color	Gray
Modularity	2-Twin
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female

Dimensions

Height	271 mm | 10.669 in
Width	230 mm | 9.055 in
Depth	128 mm | 5.039 in
Mounting Pipe Diameter Range	42.6–122 mm

Outline Drawing

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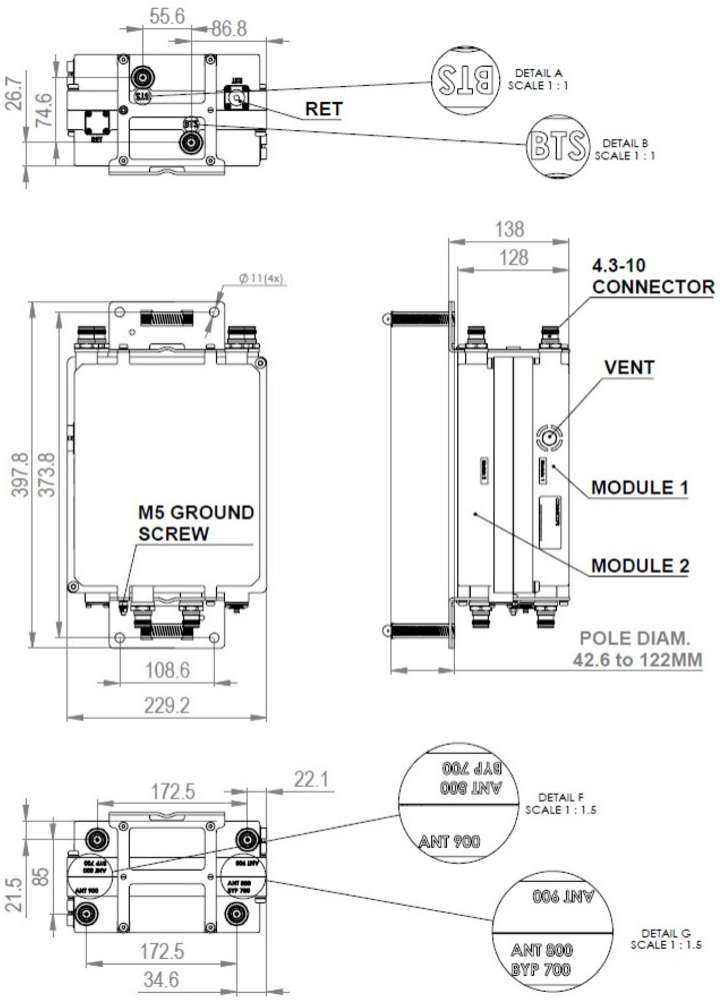

Electrical Specifications

License Band, LNA	CEL 900 | EDD 800

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

Electrical Specifications, AISG

AISG Connector	8-pin DIN Female
AISG Connector Standard	IEC 60130-9

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Protocol	AISG 2.0
Voltage, AISG Mode	10–30 Vdc

Electrical Specifications

Sub-module	**1 | 2**	**1 | 2**
Branch	1	2
Port Designation	ANT 800	ANT 900
License Band	EDD 800, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	16	16

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	**832–862**	**880–915**
Bandwidth, MHz	30	35
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.3	1.3
Total Group Delay, typical, ns	200	200
Insertion Loss - Bypass Mode, typical, dB	2.8	2.9

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	**791–821**	**925–960**
Bandwidth, MHz	30	35
Insertion Loss, typical, dB	0.4	0.4
Total Group Delay, typical, ns	60	60
Return Loss, typical, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	1000	2000
3rd Order PIM, typical, dBc	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Electrical Specifications, Band Pass

Frequency Range, MHz	**694–788**
Insertion Loss, typical, dB	0.2
Total Group Delay, typical, ns	20
Return Loss, typical, dB	20
Input Power, RMS, maximum, W	200

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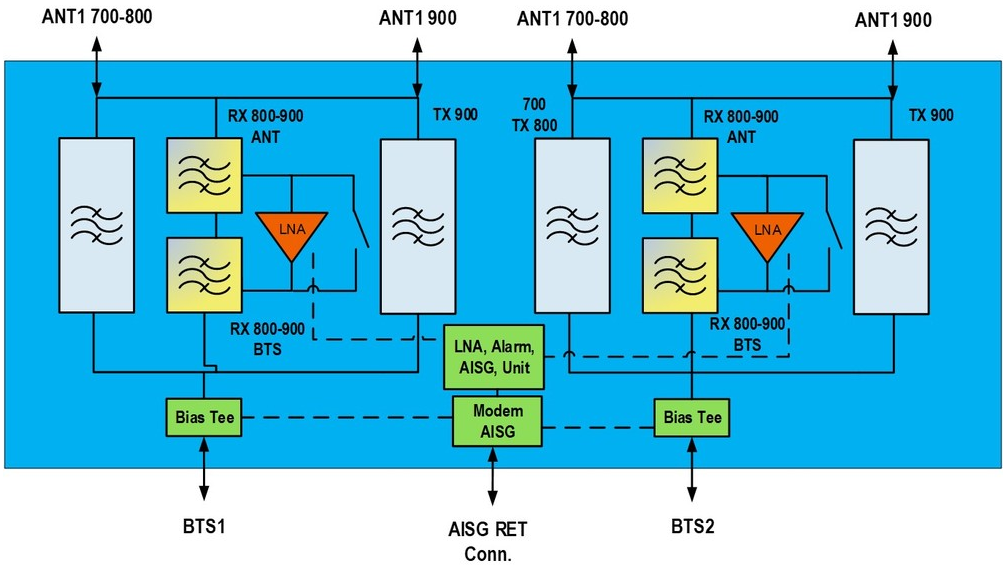
Input Power, PEP, maximum, W	1000
3rd Order PIM, typical, dBc	-160
3rd Order PIM Test Method	Two +43 dBm carriers

Block Diagram



Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Corrosion Test Method	IEC 60068-2-11, 30 days
Environmental Test Method	ETSI EN 300 019-1-4
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	7.95 L
Weight, net	10.2 kg | 22.487 lb
Weight, without mounting hardware	9.6 kg | 21.164 lb

* Footnotes

License Band, LNA	License Bands that have RxUplink amplification