

Dual Band Tower Mounted Amplifier, 800/900 MHz, 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
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- 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 1-BTS:2-ANT (Diplex) | Tower mounted amplifier

General Specifications

Color Gray
Modularity 2-Twin

Mounting Pipe HardwareBand clamps (2)RF Connector Interface4.3-10 Female

Dimensions

 Height
 250 mm | 9.843 in

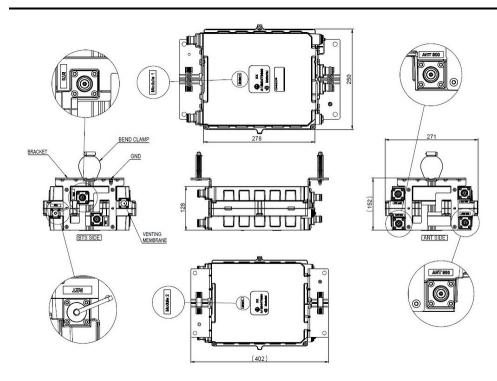
 Width
 278 mm | 10.945 in

 Depth
 128 mm | 5.039 in

 Mounting Pipe Diameter Range
 42.6–122 mm

Outline Drawing





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

Alarm Current, CWA Mode 190 mA ±10 mA

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

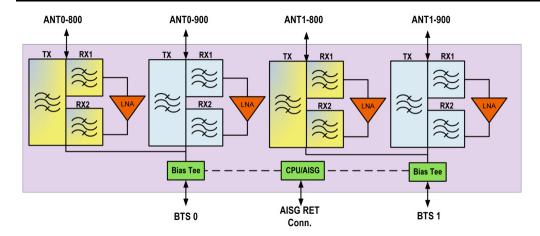
Sub-module 1 | 2 1 | 2

ANDREW® an Amphenol company

Branch	1	2
Port Designation	ANT 800	ANT 900
License Band	EDD 800, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20
Electrical Specifications Rx (Uplink)		
Frequency Range, MHz	832-862	880-915
Bandwidth, MHz	30	35
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.25	1.25
Group Delay Variation, maximum, ns	165	165
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	240	240
Return Loss, minimum, dB	16	18
Insertion Loss - Bypass Mode, typical, dB	2.7	2.7
Electrical Specifications Tx (Downlink)		
Frequency Range, MHz	791-821	925-960
Bandwidth, MHz	30	35
Insertion Loss, typical, dB	0.75	0.75
Group Delay Variation, maximum, ns	60	65
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	110	110
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-156	-156
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram





Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$

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 8.9 L

Weight, net 12.2 kg | 26.896 lb

Regulatory Compliance/Certifications

Agency Classification

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

* Footnotes

License Band, LNALicense Bands that have RxUplink amplification

