

Dual Band Tower Mounted Amplifier, 700//800 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (2 devices with 2 sub-units), 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
- Automatic LNA by-pass function
- Connectors "in line"
- TMA is operating in AISG mode
- Single AISG with 1 RET connector
- 2 devices with 2 sub-units
- Built in lightning protection

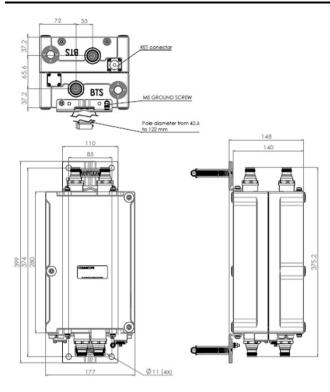
#### Product Classification

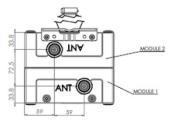
Product Type	1-BTS:1-ANT (Uniplex)   Tower mounted amplifier
General Specifications	
Color	Gray
Modularity	2-Twin
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
Dimensions	
Height	140 mm   5.512 in
Width	177 mm   6.969 in
Depth	260 mm   10.236 in
Mounting Pipe Diameter Range	42.6-122 mm

## Outline Drawing



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 15, 2025





### **Electrical Specifications**

License Band, Band Pass	APT 700
License Band, LNA	APT 700   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
Electrical Specifications, AISG	
AISG Connector	8-pin DIN Female

AISG Connector Standard

Page 2 of 4



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 15, 2025

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 700	ANT 800
License Band	APT 700, Band Pass APT 700, LNA	EDD 800, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	14	14

## Electrical Specifications Rx (Uplink)

Frequency Range, MHz	703-733	832-862
Bandwidth, MHz	30	30
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.25	1.3
Group Delay Variation, maximum, ns	30	60
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	120	220
Total Group Delay, typical, ns	90	180
Return Loss, minimum, dB	16	16
Insertion Loss - Bypass Mode, typical, dB	1.8	1.7

## Electrical Specifications Tx (Downlink)

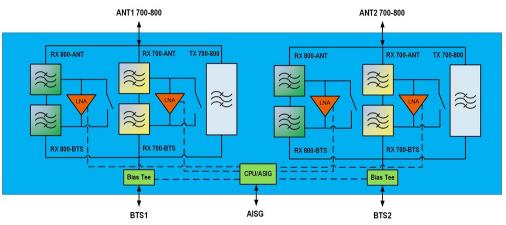
Frequency Range, MHz	758-788	791-821
Bandwidth, MHz	30	30
Insertion Loss, maximum, dB	0.7	0.7
Insertion Loss, typical, dB	0.5	0.5
Group Delay Variation, maximum, ns	10	18
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	45	55
Total Group Delay, typical, ns	35	45
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Input Power, RMS, maximum, W	200	200

Page 3 of 4



Input Power, PEP, maximum, W	1000	1000
3rd Order PIM, typical, dBc	-162	-162
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

#### Block Diagram



### **Environmental Specifications**

-40 °C to +65 °C (-40 °F to +149 °F)
Up to 100%
IEC 60068-2-11, 30 days
IEC 60529:2001, IP67

#### Packaging and Weights

Included	Mounting hardware
Volume	7 L
Weight, net	11 kg   24.251 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



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 15, 2025