

Dual Band Tower Mounted Amplifier, 700//900 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device 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
- 1 device 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 HardwareBand clamps (2)RF Connector Interface4.3-10 Female

Dimensions

 Height
 266 mm | 10.472 in

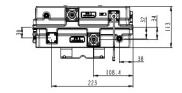
 Width
 276 mm | 10.866 in

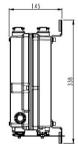
 Depth
 113 mm | 4.449 in

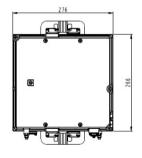
 Mounting Pipe Diameter Range
 42.6–122 mm

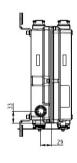
Outline Drawing

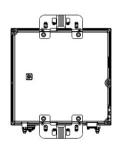


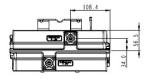












Electrical Specifications

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 IEC 60130-9

Protocol AISG 2.0

Voltage, AISG Mode 10–30 Vdc

Electrical Specifications

 Sub-module
 1 | 2
 1 | 2

Branch 1 2

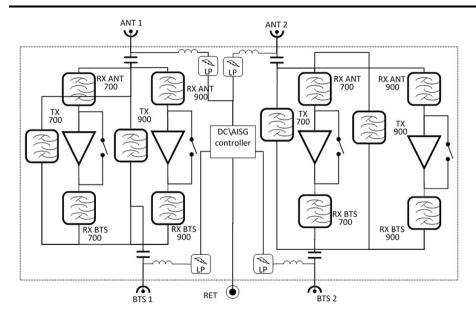
Port Designation ANT 700 ANT 900

ANDREW® an Amphenol company

License Band	APT 700, Band Pass APT 700, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	18	18
Electrical Specifications Rx (Uplink)		
Frequency Range, MHz	703-733	880-915
Bandwidth, MHz	30	35
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.3	1.4
Group Delay Variation, maximum, ns	90	100
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	200	225
Total Group Delay, typical, ns	150	200
Return Loss, minimum, dB	18	18
Insertion Loss - Bypass Mode, typical, dB	1.5	2.3
Electrical Specifications Tx (Downlink)		
Frequency Range, MHz	758-788	925-960
Bandwidth, MHz	30	35
Insertion Loss, maximum, dB	0.6	0.75
Insertion Loss, typical, dB	0.4	0.6
Group Delay Variation, maximum, ns	35	35
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	80	85
Total Group Delay, typical, ns	70	60
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2500	2500
3rd Order PIM, typical, dBc	-162	-162
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram





Environmental Specifications

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

Corrosion Test Method IEC 60068-2-11, 30 days
Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware

Volume 8.3 L

Weight, net $9 \text{ kg} \mid 19.842 \text{ lb}$ Weight, without mounting hardware $8.5 \text{ kg} \mid 18.739 \text{ lb}$

* Footnotes

License Band, Band Pass License Bands that are to be passed through with no amplification

License Band, LNALicense Bands that have RxUplink amplification

