

Dual Band Tower Mounted Amplifier, 700//900 MHz, 12 dB, 2 BTS & 4 ANT ports, AISG with 1 RET connector (2 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
- Designed to boost UP-Link Coverage and KPIs
- 2 input ports and 4 output ports
- Automatic LNA by-pass function
- 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
 274 mm
 | 10.787 in

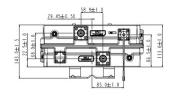
 Width
 266 mm
 | 10.472 in

 Depth
 113 mm
 | 4.449 in

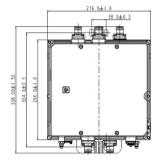
Mounting Pipe Diameter Range 42.6–122 mm



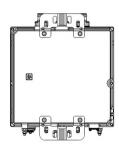
Outline Drawing

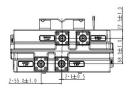












Electrical Specifications

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 **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



Sub-module	1 2	1 2
Branch	1	2
Port Designation	ANT 700	ANT 900
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	1.25	1.35
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	1.2

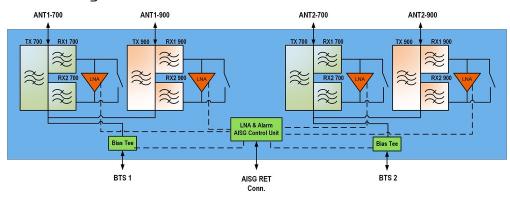
Electrical Specifications Tx (Downlink)

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

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Block Diagram



Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C}$ 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 8.3 L

Weight, net 9 kg | 19.842 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, LNALicense Bands that have RxUplink amplification

