

Tower Mounted Amplifier, Dual GSM/UMTS 900 with AISG

- Industry leading PIM performance
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- 2 input ports and 2 output ports
- Designed to boost UP-Link Coverage and KPIs
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

Product Classification

Product Type 1-BTS:1-ANT (Uniplex) | Tower mounted amplifier

General Specifications

Color Gray
Modularity 2-Twin

MountingPole | WallMounting Pipe HardwareBolt clamps (2)RF Connector Interface4.3-10 FemaleRF Connector Interface Body StyleLong neck

Dimensions

 Height
 260 mm | 10.236 in

 Width
 170 mm | 6.693 in

 Depth
 140 mm | 5.512 in

 Ground Screw Diameter
 8 mm | 0.315 in

 Mounting Pipe Diameter Range
 43-122 mm

Electrical Specifications

License Band, LNA CEL 900

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes
Lightning Surge Current 20 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Current at Voltage 100 mA @ 12 Vdc

COMMSC PE°

Operating Current Tolerance $\pm 10 \text{ mA}$ Voltage 7-30 Vdc

Alarm Current, CWA Mode 185 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

Branch 1

Port Designation ANT

License Band CEL 900, LNA

Return Loss - Bypass Mode,

typical, dB

14

TX Band Rejection, minimum, 80

dΒ

Electrical Specifications Rx (Uplink)

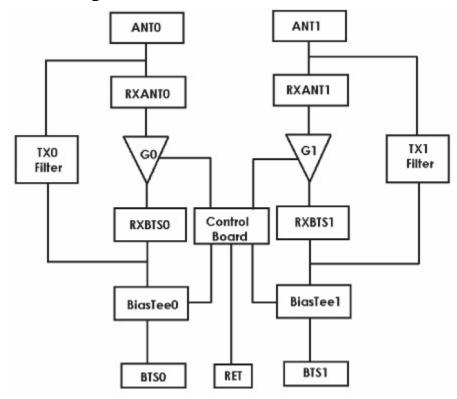
880-915 Frequency Range, MHz Bandwidth, MHz 35 Gain, nominal, dB 12 Gain Tolerance, dB ±1 Noise Figure, maximum, dB 1.6 Noise Figure, typical, dB 1.3 **Group Delay Variation,** 60 maximum, ns **Group Delay Variation** 5 Bandwidth, MHz Total Group Delay, maximum, 200 ns Output IP3, minimum, dBm 22 Return Loss, minimum, dB 18 **Insertion Loss - Bypass** 3 Mode, typical, dB

Electrical Specifications Tx (Downlink)

•
925-960
35
0.7
0.4
0.5
28
5
78
18
40
200
5000
-160
Two +43 dBm carriers



Block Diagram



Material Specifications

Finish Painted

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

IncludedMounting hardwareWeight, net8 kg | 17.637 lb

Regulatory Compliance/Certifications

Agency Classification

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

COMMSCOPE®



* Footnotes

License Band, LNA License Bands that have RxUplink amplification

