

Tower Mounted Amplifier, Twin AWS 1-4 with AISG, 4.3-10 Connectors

• New 4.3-10 connectors for improved PIM performance and size reduction

#### **Product Classification**

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

40-160 mm

## General Specifications

**Mounting Pipe Diameter Range** 

Color Gray
Modularity 2-Twin

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

#### **Dimensions**

 Height
 161 mm | 6.339 in

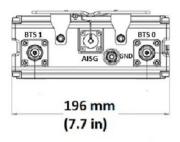
 Width
 196 mm | 7.717 in

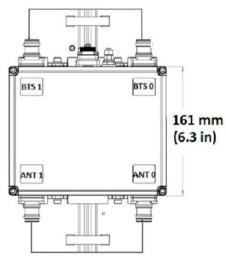
 Depth
 78 mm | 3.071 in

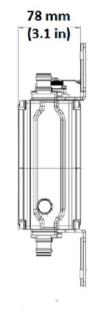
 Ground Screw Diameter
 5 mm | 0.197 in

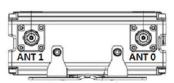


### Outline Drawing









## **Electrical Specifications**

License Band, LNA AWS 1700

#### Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Ye

**Lightning Surge Current** 20 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Current at Voltage 100 mA @ 12 V

Operating Current Tolerance±20 mAVoltage7-30 VdcVoltage, CWA Mode10-18 Vdc

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#### 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 10-30 Vdc Voltage, AISG Mode

#### **Electrical Specifications**

Sub-module 1 | 2 **Branch** 1 **Port Designation** ANT

**License Band** AWS 1700, LNA

#### Electrical Specifications Rx (Uplink)

1695-1780 Frequency Range, MHz 12 Gain, nominal, dB Gain Tolerance, dB ±1 1.2 Noise Figure, typical, dB **Total Group Delay,** 35 maximum, ns Output IP3, minimum, dBm 22 Return Loss, typical, dB 21

**Insertion Loss - Bypass** 1.7 Mode, typical, dB

Return Loss - Bypass Mode, 17

typical, dB

#### Electrical Specifications Tx (Downlink)

Frequency Range, MHz 2110-2200 Insertion Loss, typical, dB 0.2

**Total Group Delay,** 10 maximum, ns

Return Loss, typical, dB

21 Input Power, RMS, 200

maximum, W

Input Power, PEP, maximum, 2000



## Electrical Specifications, Band Pass

Higher Order PIM, typical, -161

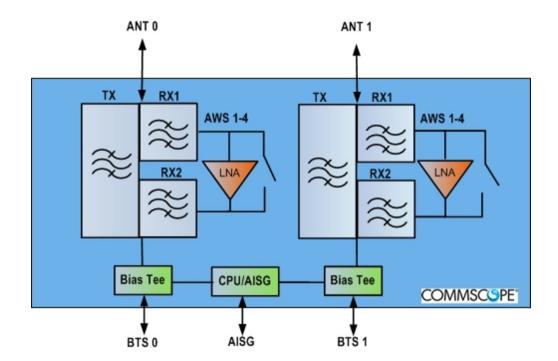
dBc

**Higher Order PIM Test** 

Method

2 x 20 W CW tones

### 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%

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

Packaging and Weights

IncludedMounting hardwareWeight, without mounting hardware3.4 kg | 7.496 lb

### Regulatory Compliance/Certifications

Agency Classification

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



#### \* Footnotes

**License Band, LNA** License Bands that have RxUplink amplification

