

Tower Mounted Amplifier, Twin PCS A-G with Variable Gain AISG

Product Classification

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

General Specifications

Color Gray
Modularity 2-Twin

MountingPole | WallMounting Pipe HardwareBand clamps (2)RF Connector Interface7-16 DIN Female

RF Connector Interface Body Style Long neck

Dimensions

 Height
 260 mm | 10.236 in

 Width
 170 mm | 6.693 in

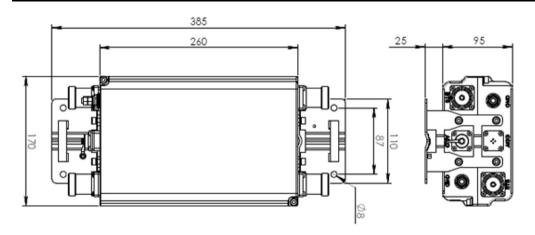
 Depth
 94 mm | 3.701 in

 Ground Screw Diameter
 6 mm | 0.236 in

 Mounting Pipe Diameter Range
 42.6–122 mm

Outline Drawing





Electrical Specifications

License Band, LNA PCS 1900

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes
Lightning Surge Current 10 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Current at Voltage 135 mA @ 12 V

Operating Current Tolerance±10 mAVoltage7-30 VdcVoltage, CWA Mode10-18 Vdc

Alarm Current, CWA Mode 185 mA ±10 mA

Electrical Specifications, AISG

AISG Connector 8-pin DIN Female

AISG Connector Standard IEC 60130-9

Default Protocol AISG 2.0

Protocol AISG 1.1 | AISG 2.0

Voltage, AISG Mode 10–30 Vdc

Electrical Specifications

Sub-module1 | 2Branch1Port DesignationANT

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License Band PCS 1900, LNA

Electrical Specifications Rx (Uplink)

Electrical Specification	או בווכ
Frequency Range, MHz	1850-1915
Bandwidth, MHz	65
Gain, nominal, dB	12
Gain Tolerance, dB	±1
Gain Adjustment Range, dB	12-4
Gain Adjustment Range Increments, dB	1
Noise Figure, maximum, dB	2
Noise Figure at 8 dB, maximum, dB	2.4
Noise Figure at 4 dB, maximum, dB	3
Noise Figure, typical, dB	1.3
Noise Figure at 8 dB, typical, dB	1.6
Noise Figure at 4 dB, typical, dB	2.3
Group Delay Variation, maximum, ns	50
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	150
Output IP3, minimum, dBm	26
Output IP3 at 8 dB, minimum, dBm	22
Output IP3 at 4 dB, minimum, dBm	18
Return Loss, minimum, dB	18

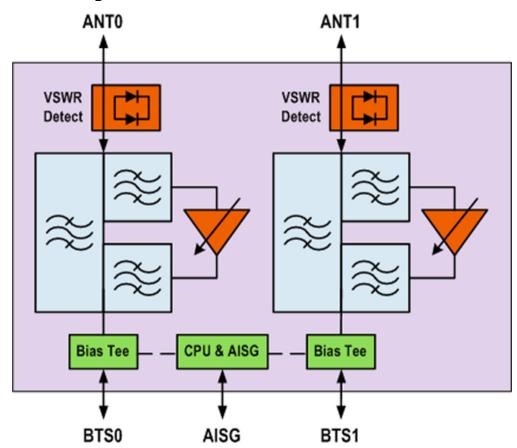
Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1930-1995
Bandwidth, MHz	65
Insertion Loss, maximum, dB	0.7
Group Delay Variation, maximum, ns	20



Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	50
Return Loss, minimum, dB	18
Input Power, RMS, maximum, W	500
Input Power, PEP, maximum, W	5000
3rd Order PIM, maximum, dBc	-153
3rd Order PIM Test Method	Two +43 dBm carriers
VSWR Alarm Threshold, dB	9.54
VSWR Alarm Threshold Tolerance, dB	±2

Block Diagram



Material Specifications

Finish Painted

Environmental Specifications

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

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 4.1 L

Weight, net 6.6 kg | 14.55 lb

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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

