

Tri Band Tower Mounted Amplifier, 700//850//900 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (3 devices with 2 sub-units each), with 4.3-10 connectors

- 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
- 3 devices with 2 sub-units
- Automatic LNA by-pass function
- Connectors "in line"
- Single AISG with 1 RET connector
- Built in lightning protection
- New 4.3-10 connectors for improved PIM performance and size reduction

OBSOLETE

This product was discontinued on: December 31, 2024

Product Classification

Product Type	1-BTS:1-ANT (Uniplex) Tower mounted amplifier	
General Specifications		
Color	Gray	
Modularity	2-Twin	
Mounting	Pole Wall	
Mounting Pipe Hardware	Band clamps (2)	
RF Connector Interface	4.3-10 Female	
Dimensions		
Height	151 mm 5.945 in	
Width	355 mm 13.976 in	
Depth	405 mm 15.945 in	
Mounting Pipe Diameter Range	42.6-122 mm	

Outline Drawing

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Electrical Specifications

License Band, LNA

APT 700 | CEL 850 | DCS 1800 | IMT 2100 | IMT 2600

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform
Voltage	10-18 Vdc
Voltage, CWA Mode	10-18 Vdc
Alarm Current, CWA Mode	190 mA ±10 mA

Electrical Specifications, AISG

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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	1 2
Branch	1	2	3
Port Designation	ANT	ANT	ANT
License Band	APT 700, LNA	CEL 850, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20	20
Return Loss - Bypass Mode, typical, dB	18	18	18

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	703-748	825-835	898-915
Bandwidth, MHz	45	10	16.6
Gain, nominal, dB	13	13	13
Noise Figure, maximum, dB	2	2	2
Noise Figure, typical, dB	1.5	1.5	1.5
Group Delay Variation, maximum, ns	190	60	60
Group Delay Variation Bandwidth, MHz	5	5	5
Return Loss, minimum, dB	16	16	16
Insertion Loss - Bypass Mode, typical, dB	1.3	1.8	1.8

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	758-803	870-880	943-960
Bandwidth, MHz	45	10	16.6
Insertion Loss, maximum, dB	0.6	0.5	0.5
Group Delay Variation, maximum, ns	35	10	20
Group Delay Variation Bandwidth, MHz	5	5	5
Return Loss, minimum, dB	18	18	18
Return Loss, typical, dB	20	20	20
Input Power, RMS, maximum, W	200	200	200
Input Power, PEP, maximum, W	2500	2500	2500
3rd Order PIM, typical, dBc	-153	-153	-153

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3rd Order PIM Test Method

Two +43 dBm carriers Two +43 dBm carriers Two +43 dBm carriers

Block Diagram



Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)	
Relative Humidity	Up to 100%	
Corrosion Test Method	IEC 60068-2-11, 30 days	
Ingress Protection Test Method	IEC 60529:2001, IP67	
B		

Packaging and Weights

Included	Mounting hardware	
Volume	19 L	
Weight, net	25 kg 55.115 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

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