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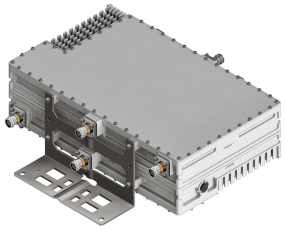

Quad Band TMA 1800/2100/2300/2600 with 694-960 bypass, 1 AISG, 4 devices - 2 subunits, 4.3-10 connectors

- Industry leading PIM performance
- Designed to boost UP-Link Coverage and KPIs
- TMA is operating in AISG mode
- 4 devices with 2 sub-units
- Option to by-pass TDD2300 LNA
- Single AISG with 1 RET connector
- RET interface to control antenna RET actuators with AISG standard
- Automatic LNA by-pass function
- 2 input ports and 4 output ports
- TMA with 694-960 MHz bypass
- New 4.3-10 connectors for improved PIM performance and size reduction

Product Classification

Product Type	1-BTS:2-ANT (Diplex) | 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	120 mm | 4.724 in
Width	457 mm | 17.992 in
Depth	275 mm | 10.827 in
Mounting Pipe Diameter Range	42.6–122 mm

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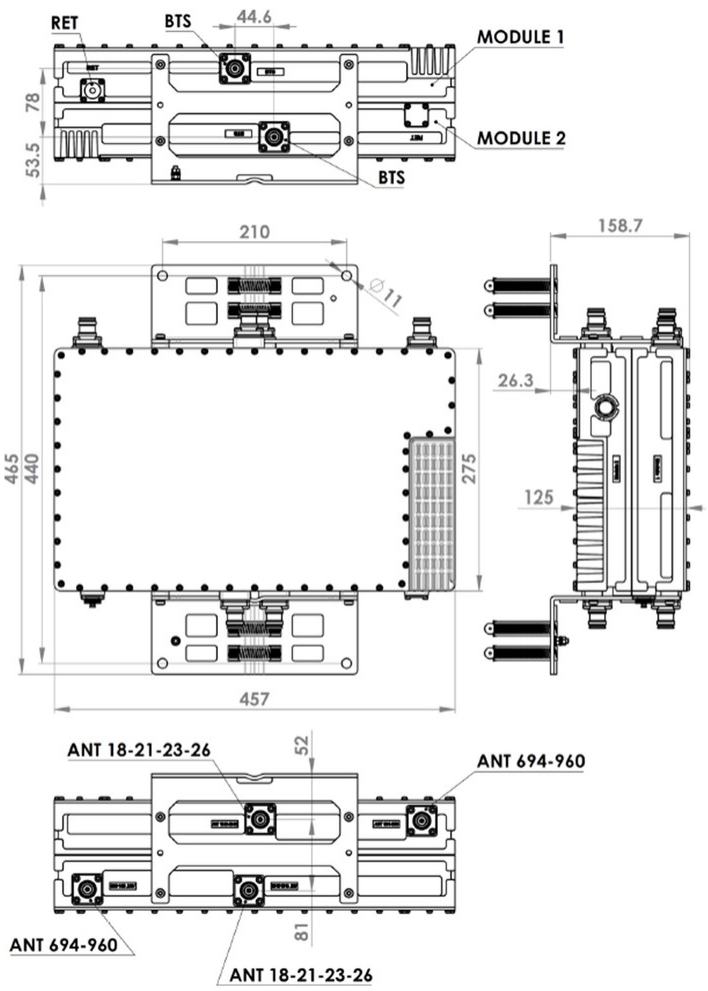
Outline Drawing



Electrical Specifications

License Band, LNA	DCS 1800 | IMT 2100 | IMT 2600 | TDD 2300

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications, AISG

AISG Connector	8-pin DIN Female
AISG Connector Standard	IEC 60130-9

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Protocol	AISG 2.0
Voltage, AISG Mode	10–30 Vdc

Electrical Specifications

Sub-module	**1 | 2**	**1 | 2**	**1 | 2**	**1 | 2**
Branch	1	2	3	4
Port Designation	ANT	ANT	ANT	ANT
License Band	DCS 1800, LNA	IMT 2100, LNA	TDD 2300, LNA	IMT 2600, LNA
Return Loss, typical, dB	20	20	20	20
Return Loss - Bypass Mode, typical, dB	18	18	18	18

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	**1710–1785**	**1920–1980**	**2300–2400**	**2500–2570**
Bandwidth, MHz	75	60	100	70
Gain, nominal, dB	12	12	12	12
Noise Figure, typical, dB	1.2	1.2	2.2	1.2
Total Group Delay, typical, ns	100	80	65	70
Insertion Loss - Bypass Mode, typical, dB	2	2	2	2

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	**1805–1880**	**2110–2170**	**2300–2400**	**2620–2690**
Bandwidth, MHz	75	60	100	70
Insertion Loss, typical, dB	0.5	0.3	1.7	0.4
Total Group Delay, typical, ns	40	22	58	22
Return Loss, typical, dB	20	20	18	20
Input Power, RMS, maximum, W	100	100	50	100
Input Power, PEP, maximum, W	1000	1000	500	1000
3rd Order PIM, typical, dBc	-155	-155		-155
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers		Two +43 dBm carriers

Block Diagram

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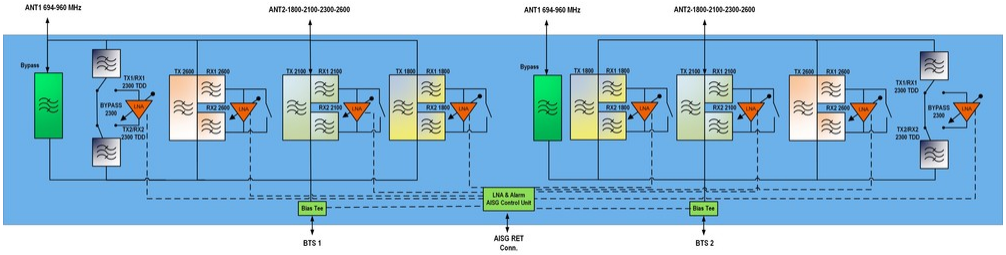

Environmental Specifications

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

Packaging and Weights

Included	Mounting hardware
Volume	15 L
Weight, net	18.5 kg | 40.785 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