

E15Z01P67



Quad Band TMA 850/900/1800/2100, 5 devices - 2 subunits each

- Designed to boost UP-Link Coverage and KPIs
- TMA is operating in AISG mode
- 5 devices with 2 sub-units
- Single AISG with 1 RET connector
- RET interface to control antenna RET actuators with AISG standard
- Built in lightning protection
- Automatic LNA by-pass function

OBSOLETE

This product was discontinued on: [June 30, 2022](#)

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 7-16 DIN Female

Dimensions

Height 355 mm | 13.976 in

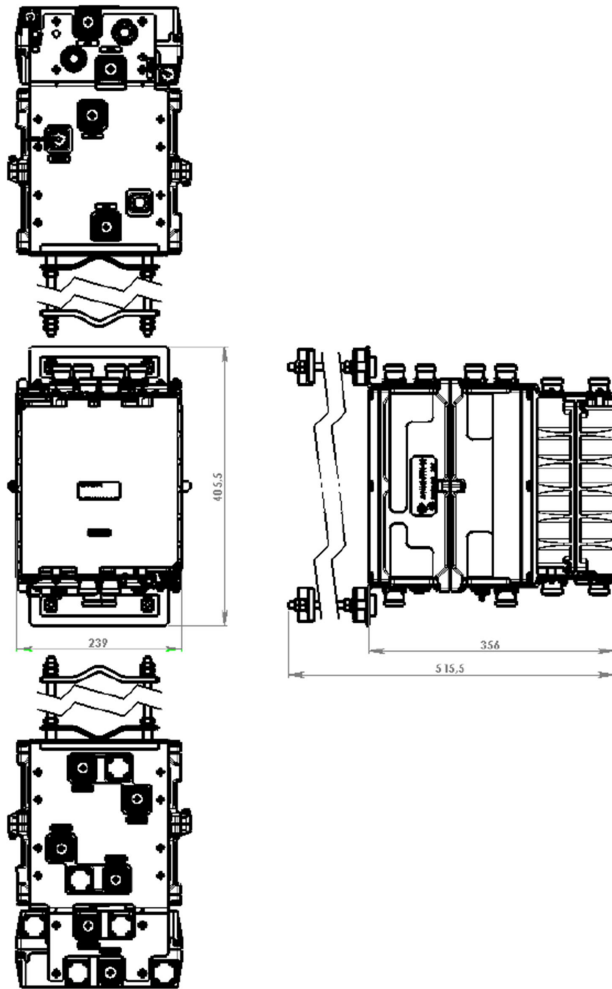
Width 237 mm | 9.331 in

Depth 280 mm | 11.024 in

Mounting Pipe Diameter Range 42.6–122 mm

Outline Drawing

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Electrical Specifications

License Band, LNA CEL 850 | CEL 900 | 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
Alarm Current, CWA Mode 190 mA \pm 15 mA

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	7–30 Vdc

Electrical Specifications

Sub-module	1 2	1 2	1 2	1 2	1 2	1 2
Branch	1	1	2	2	3	4
Port Designation	ANT 850-900 Port	ANT 18-21 Port	ANT 850-900 Port	ANT 18-21 Port	ANT 1800-2100 Port	ANT 1800-2100 Port
License Band	CEL 850, LNA	DCS 1800, LNA	CEL 900, LNA	IMT 2100, LNA	DCS 1800, LNA	IMT 2100, LNA
Return Loss, typical, dB	20	19	20	19	20	20
Return Loss - Bypass Mode, typical, dB	16	18	16	18	16	16

Electrical Specifications Rx (Uplink)

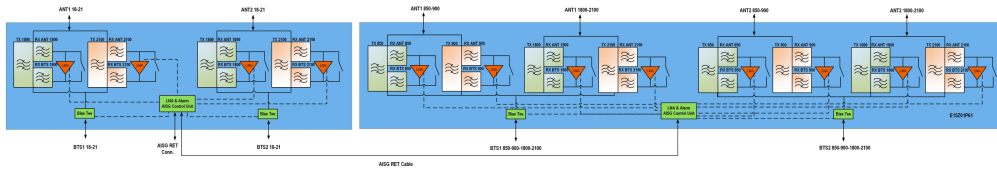
Frequency Range, MHz	825–835	1710–1785	906.8–915	1920–1980	1710–1785	1920–1980
Bandwidth, MHz	10	75	8.2	60	75	60
Gain, nominal, dB	12	12	12	12	12	12
Noise Figure, maximum, dB	2	2.1	2	2	2.1	2
Noise Figure, typical, dB	1.5	1.5	1.5	1.5	1.5	1.5
Return Loss, minimum, dB	18	17	18	17	18	18
Insertion Loss - Bypass Mode, typical, dB	2.1	3.3	2.1	2.8	2.1	2

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	870–880	1805–1880	951.8–960	2110–2170	1805–1880	2110–2170
Bandwidth, MHz	10	75	8.2	60	75	60
Insertion Loss, typical, dB	0.35	0.5	0.5	0.3	0.5	0.4
Return Loss, minimum, dB	18	18	18	18	18	18
Return Loss, typical, dB	20	20	20	20	20	20
Input Power, RMS, maximum, W	200	200	200	200	200	200
Input Power, PEP, maximum, W	2500	2000	2500	2500	2500	2500
3rd Order PIM, maximum, dBc	-153	-153	-153	-153	-153	-153
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

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	23.6 L
Weight, net	31 kg 68.343 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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