

Twin TMA PCS/WCS with 555-894 MHz bypass,4.3-10 connectors

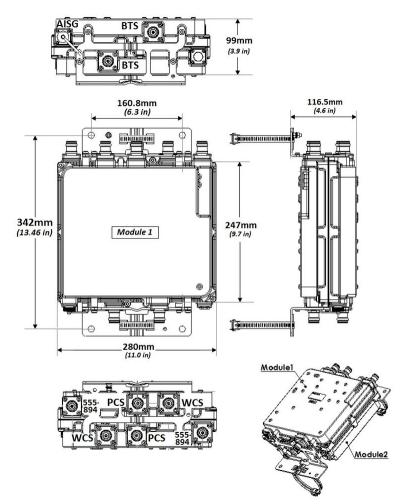
Product Classification	
Product Type	Tower mounted amplifier
General Specifications	
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Long neck
Dimensions	
Height	247 mm 9.724 in
Width	280 mm 11.024 in
Depth	99 mm 3.898 in
Ground Screw Diameter	5 mm 0.197 in

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Outline Drawing



Electrical Specifications

License Band, Band Pass	CEL 850 PCS 1900 USA 700 USA 750
License Band, LNA	PCS 1900 WCS 2300

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	210 mA @ 12 Vdc
Alarm Current, CWA Mode	150 mA +/- 10 mA (10-18 VDC)

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Electrical Specifications, AISG

AISG Carrier	2.176 MHz ± 100 ppm	
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
Branch	1	2
Port Designation	ANT 555-894	ANT PCS
AISG 2.0 Device Subunit		E25A01P11 1/3

Electrical Specifications Rx (Uplink)

License Band

Frequency Range, MHz	1850–1910	2305–2315
Gain, nominal, dB	13	13
Noise Figure, typical, dB	1.4	1.4
Return Loss, minimum, dB	20	20
Insertion Loss - Bypass Mode, typical, dB	2.4	2.4
Return Loss - Bypass Mode, typical, dB	18	18

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Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1930–1990	2350–2360
Insertion Loss, typical, dB	0.45	0.45
Return Loss, minimum, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, maximum, dBc	-153	-153
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Electrical Specifications, Band Pass

Frequency Range, MHz	555–894
Insertion Loss, maximum, dB	0.2
Return Loss, minimum, dB	20
Isolation, minimum, dB	60

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PCS 1900, LNA

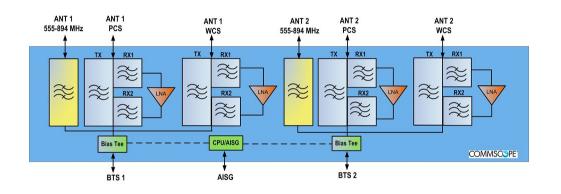
ANT WCS

E25A01P11 3/4

WCS 2300, LNA

Input Power, RMS, maximum, W	200
Input Power, PEP, maximum, W	2000
3rd Order PIM, maximum, dBc	-153

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

Packaging and Weights

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Weight, net

9.7 kg | 21.385 lb

* Footnotes

License Band, Band Pass License Bands that are to be passed through with no amplification

License Band, LNA License Bands that have RxUplink amplification

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