

**782 10404 Dual Tower Mount Amplifier:**

- Double unit for easy use with XPol antennas
- Kathrein redundancy amplifier design for improved system reliability
- By-pass mode to ensure cell operation in case of DC power down
- Built-in lightning protection
- Compact size
- Suitable for antenna RET control according to AISG standard
- DTMA DC supply and AISG feed via BTS 0 port for both TMAs

**Tx Characteristics:**

Frequency range	1930–1990 MHz
Bandwidth	60 MHz
Insertion loss	< 0.5 dB over the middle 80% of BW a further 0.25 dB over the remaining BW
Input power	< 160 W (+52 dBm) CW < 1.6 kW (+62 dBm) Peak
Intermodulation products in Rx band	< -117 dBm (2 Tx carriers at +43 dBm)
Return loss	> 18 dB

**Rx Characteristics:**

Frequency range	1850–1910 MHz
Bandwidth	60 MHz
Loss in bypass mode	< 2.8 dB (typical)
Return loss	> 18 dB (DC ON) > 15 dB (DC OFF)
Gain	-40 – +65° C      24 ± 1.2 dB +22 – +28° C      24 ± 0.6 dB
Noise figure	-40 – +65° C      < 2.1 dB over the middle 80% of BW a further 0.3 dB over the remaining BW +22 – +28° C      < 1.6 dB over the middle 80% of BW a further 0.3 dB over the remaining BW
Output 1-dB compression point	> 19 dBm
3rd order intercept point (OIP3)	> 28 dBm

**Environmental Characteristics:**

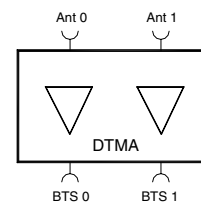
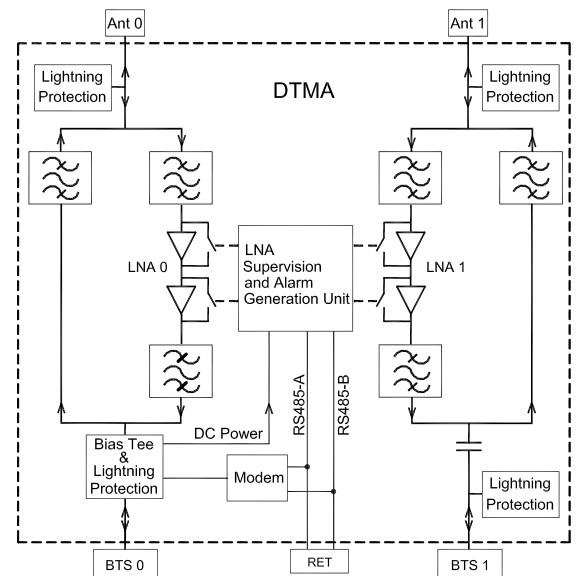
Operating temperature range	-40 – +65°C
IP rating	IP 67*
MTBF	> 1,000,000 hours (per TMA)
EMC	ETS 300 342-3
Lightning protection	5 kA, 8/20µs RF connections and AISG port
Certification	FCC 15.107 Class B Computing Devices

**DC and Alarm Characteristics: Through Node BO Port only**

DC supply without RET	+12V nominal (9–15V, minus grounded) Typically 250 mA per TMA
Alarm management	According to AISG standard 1.1
Modem characteristics	According to AISG standard 1.1 Data rate: 9.6 kB

See reverse for mechanical characteristics and order information.

\* The DTMA is not designed for permanent operation under water.  
Test conditions for the IP67 rating: submerge depth: 1 m; submerge time: 24 hours

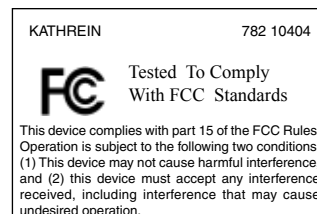
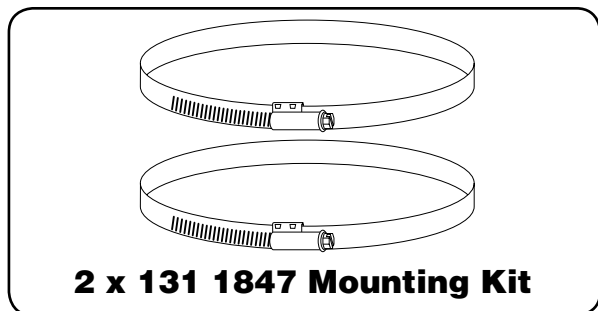


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936.2939/c

**Mechanical Characteristics:**

Connectors	RF AISG connector (compliance AISG 1.1)	7-16 female 8-pin female, IEC 60130-9 (Pin 1: +12 V DC nominal, pin 3: RS485B, pin 5: RS485A, pin 7: DC return; other pins: Not connected)
Mounting**	Wall mounting with 4 screws (8mm max.) Mast mounting with optional clamp set.	
Weight	11 lb (5 kg)	
Dimensions	10.9 x 6.5 x 3.1 inches (278 x 166 x 77.5 mm)	
Shipping dimensions	19.8 x 10.3 x 8.4 inches (502 x 262 x 214 mm)	

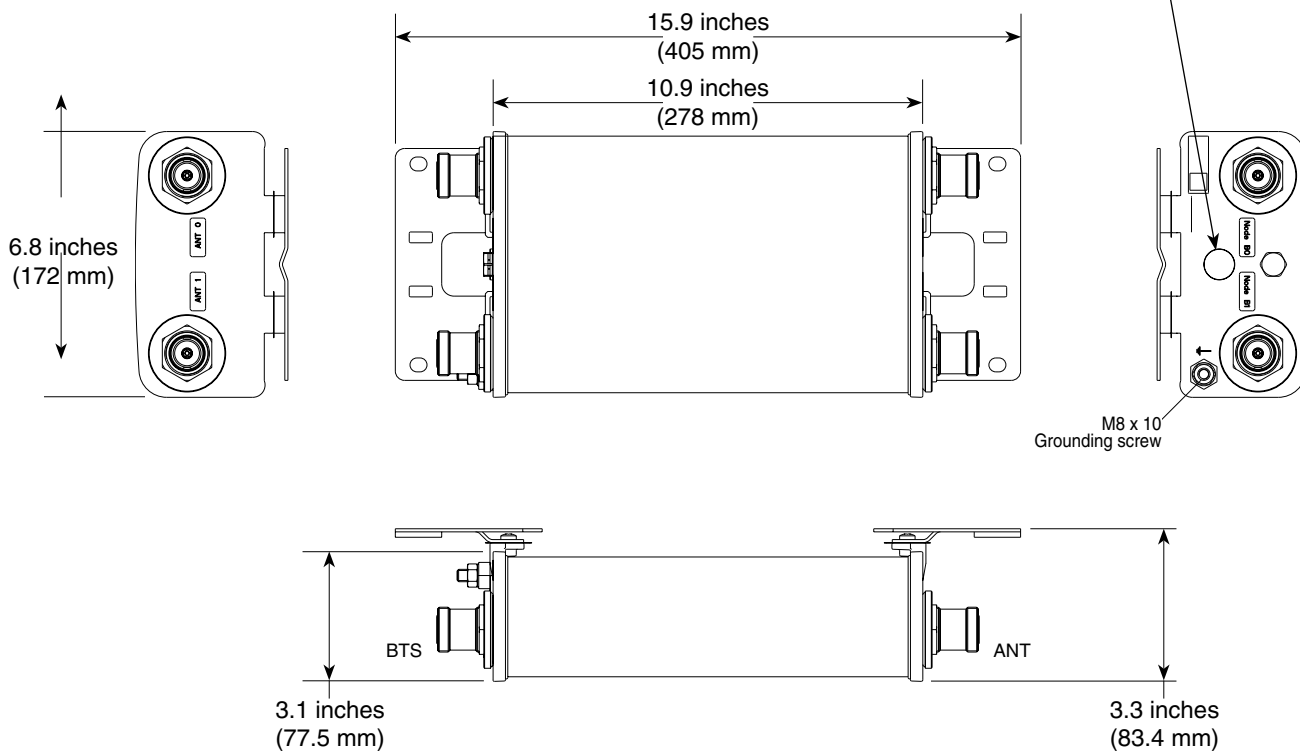
\*\* Must be mounted with the AISG connector at the bottom.



**Mounting Options:**

Model	Description
2 x 131 1847	Mounting Kit for 2 to 5.7 inch (50 to 145 mm) OD mast.

Must be mounted with the AISG connector at the bottom.



**Order Information:**

Model	Description
782 10404	Dual tower mount amplifier

All specifications are subject to change without notice. The latest specifications are available at [www.kathrein-scala.com](http://www.kathrein-scala.com).