

**90° Panel Antenna  
with Integrated Combiner**

Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS.

- Wide band operation.
- Exceptional intermodulation characteristics.
- Various gain, beamwidth and downtilt ranges.
- High strength pultruded fiberglass radome.
- Integrated combiner reduces RF feedline requirements from 2 to 1.

**General specifications:**

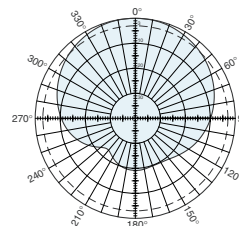
Frequency range	824–960 MHz 1710–2170 MHz
VSWR	824–960 MHz <1.7:1 870–960 MHz <1.5:1 1710–2170 MHz <1.5:1
Gain	824–960 MHz 10 dBi 1710–2170 MHz 11 dBi
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	Vertical / Vertical
Front-to-back ratio	824–960 MHz >18 dB 1710–2170 MHz >20 dB
Maximum input power	100 watts (at 50°C)
H-plane beamwidth	824–960 MHz 90 degrees (half-power) 1710–2170 MHz 82 degrees (half-power)
E-plane beamwidth	824–960 MHz 33 degrees (half-power) 1710–2170 MHz 19 degrees (half-power)
Connector	1 x 7-16 DIN female
Weight	11 lb (5 kg)
Dimensions	26.1 x 6.1 x 2.7 inches (662 x 155 x 69 mm)
Wind load	at 93 mph (150kph) Front/Side/Rear 40 lbf / 11 lbf / 45 lbf (175 N / 47 N / 200 N)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	31.7 x 6.8 x 3.6 inches (804 x 172 x 92 mm)
Mounting	Fixed and tilt mount options are available for 1.3 to 5.5 inch (34 to 140 mm) OD masts.

See reverse for order information.

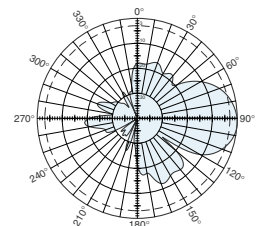
\* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



**824–960 MHz**

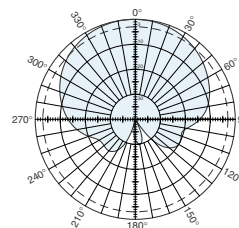


H-plane  
Horizontal pattern  
Vertical - polarization

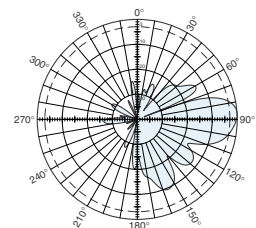


E-plane  
Vertical pattern  
Vertical - polarization

**1710–2170 MHz**



H-plane  
Horizontal pattern  
Vertical - polarization

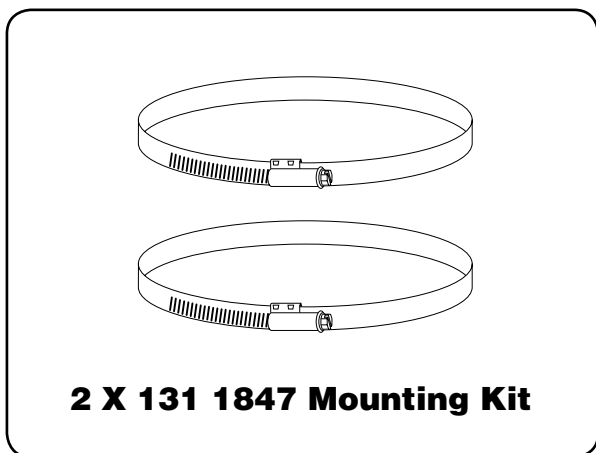


E-plane  
Vertical pattern  
Vertical - polarization



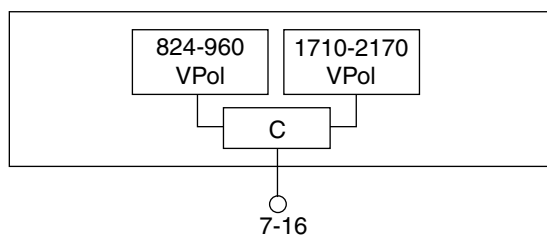
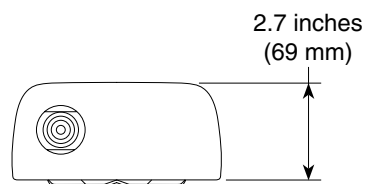
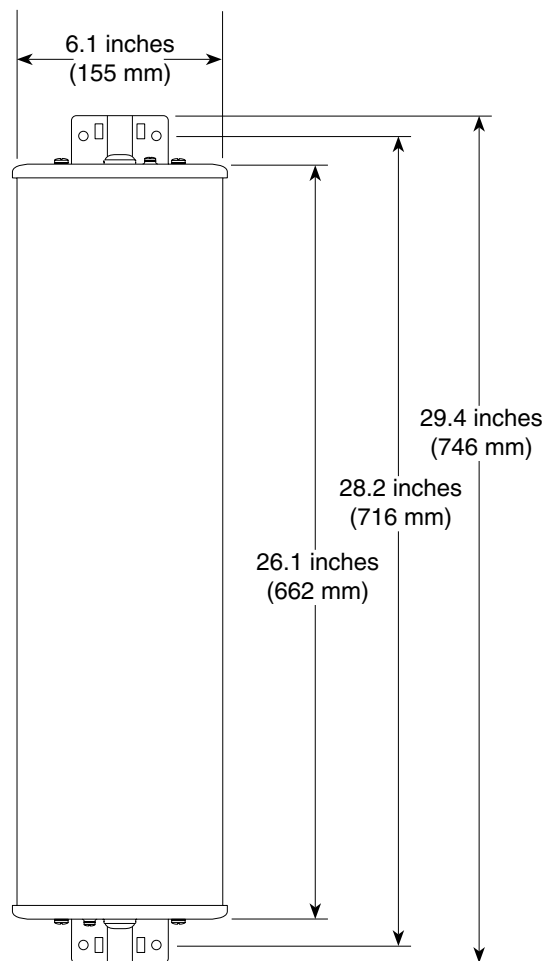
10780-E  
936.2500/c

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**Mounting Options:**

Model	Description
2 x 131 1847	Mounting Kit for 2 to 5.7 inch (50 to 145 mm) OD mast.
742 263	Three-panel Sector Mounting Kit (120 deg. ea.) for 3.5 inch (89 mm) OD mast.
732 327	Tilt Kit for use with the above mounting kits, 0–40 degrees downtilt angle.



**Order Information:**

Model	Description
800 10046	Antenna with 7/16 DIN connector

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