

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:

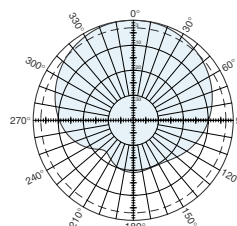
Frequency range	824–960 MHz 1710–2170 MHz
VSWR	
824–960 MHz	<1.7:1
870–960 MHz	<1.5:1
1710–2170 MHz	<1.5:1
Gain	
824–960 MHz	10 dBi
1710–2170 MHz	11 dBi
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	Vertical / Vertical
Front-to-back ratio	
824–960 MHz	>18 dB
1710–2170 MHz	>20 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.

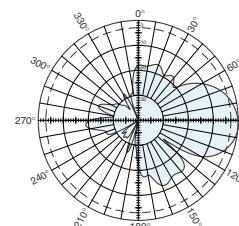
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



824–960 MHz

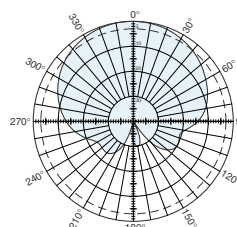


H-plane
Horizontal pattern
Vertical - polarization

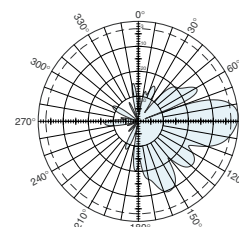


E-plane
Vertical pattern
Vertical - polarization

1710–2170 MHz



H-plane
Horizontal pattern
Vertical - polarization

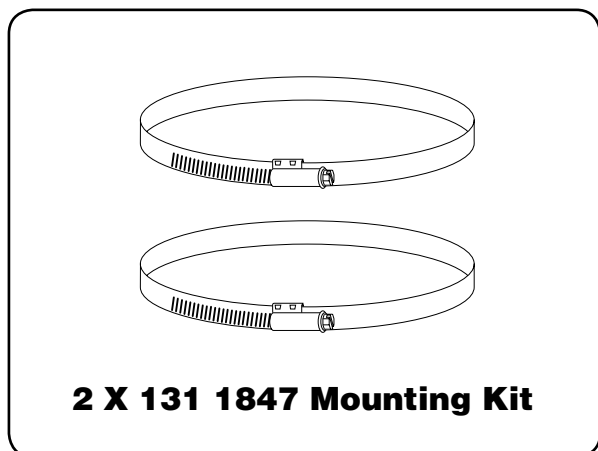


E-plane
Vertical pattern
Vertical - polarization



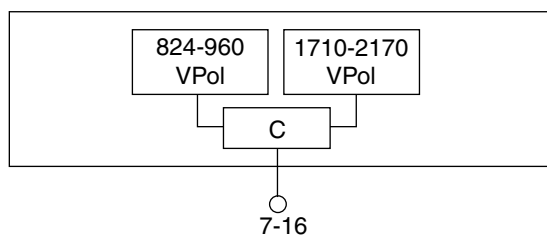
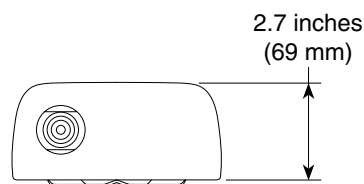
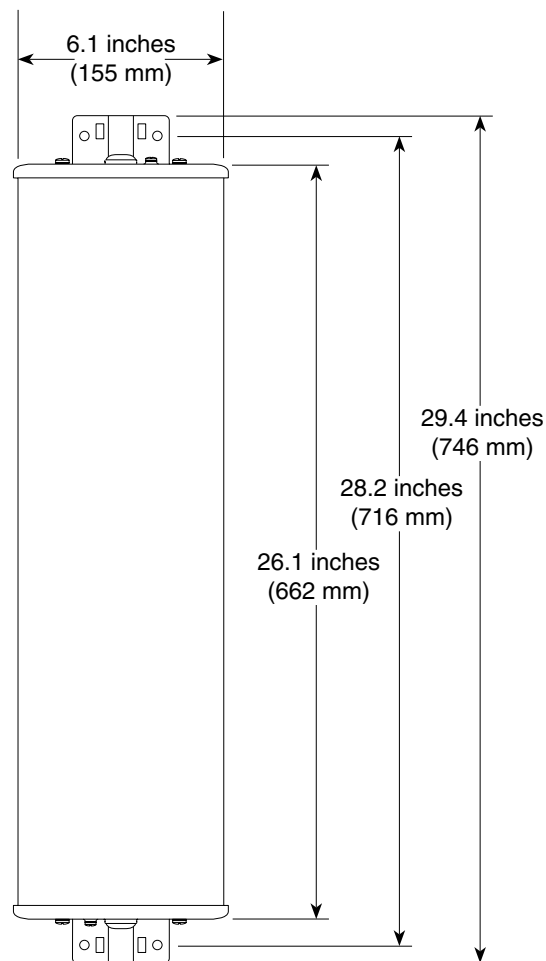
10780-E
936.2500/c

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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.