

Kathrein wideband X-polarized antennas are designed for use in PCS and 3G/UMTS polarization diversity systems.

- X-polarized (+45° and -45°).
- UV resistant pulltruded radomes.
- Wideband vector dipole technology.
- DC Grounded metallic parts for impulse suppression.

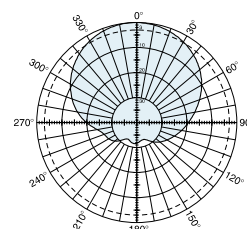
**General specifications:**

Frequency range	1710–2170 MHz
VSWR	<1.4:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Connector	2 x 7-16 DIN female
Isolation	>30 dB
Maximum input power	150 watts (at 50°C) per input
Weight	4.4 lb (2 kg)
Dimensions	13.5 x 6.1 x 2.7 inches (342 x 155 x 69 mm)
Wind load Front/Side/Rear	at 93 mph (150kph) 22 lbf / 6 lbf / 25 lbf (95 N) / (24 N) / (110 N)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	17.5 x 6.8 x 3.6 inches (444 x 172 x 92 mm)
Shipping weight	6.6 lb (3 kg)
Mounting	Fixed and tilt mount options are available for 1.3 to 5.5 inch (34 to 140 mm) OD masts.

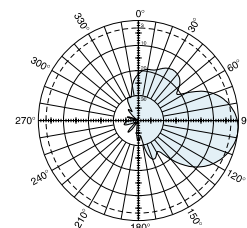
*See reverse for order information.*

<b>Specifications:</b>	<b>1710–1880 MHz</b>	<b>1850–1990 MHz</b>	<b>1920–2170 MHz</b>
Gain	11.5 dBi	12 dBi	12 dBi
+45° and -45° polarization horizontal beamwidth	67° (half-power)	65° (half-power)	63° (half-power)
+45° and -45° polarization vertical beamwidth	32° (half-power)	30° (half-power)	28° (half-power)
Electrical downtilt	3°	2°	0°
Front-to-back ratio	>30 dB (co-polar)	>30 dB (co-polar)	>27 dB (co-polar)
Cross polar ratio			
Main direction   0°	25 dB (typical)	25 dB (typical)	25 dB (typical)
Sector         ±60°	>10 dB	>10 dB	>10 dB

\*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.



Horizontal pattern  
±45°- polarization

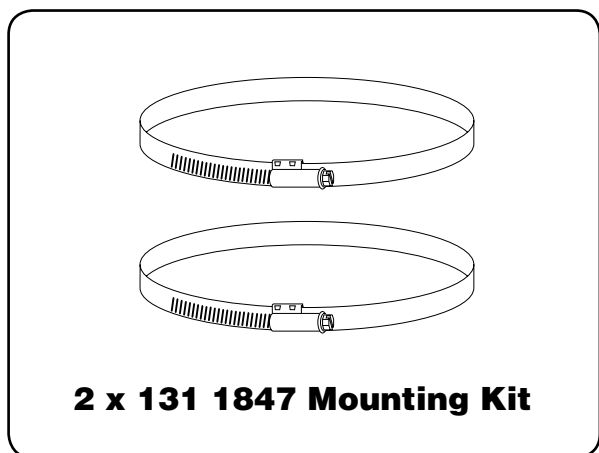


Vertical pattern  
±45°- polarization



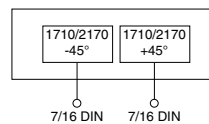
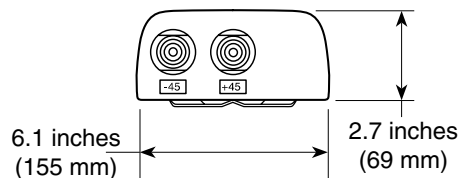
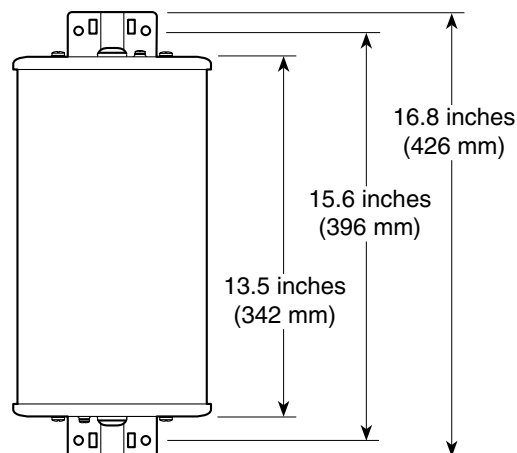
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**Mounting Options:**

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
739 489	Antenna with 2 x 7-16 DIN connectors

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

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