

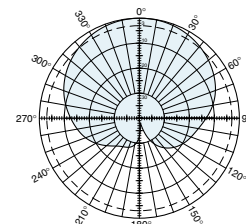
Kathrein wideband X-polarized antennas are designed for use in PCS and 3G/UMTS polarization diversity systems.

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

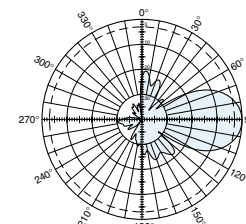
General specifications:

Frequency range	1710–2170 MHz
VSWR	<1.4:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Front-to-back ratio (180° ±30°)	>23 dB (co-polar) >23 dB (total power)
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 2 to 5.7 inch (50 to 145 mm) OD masts.

See reverse for order information.



Horizontal pattern
±45°- polarization



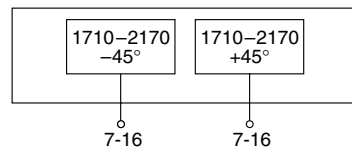
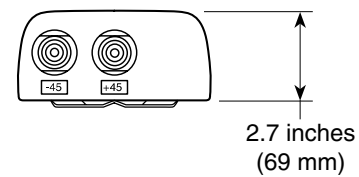
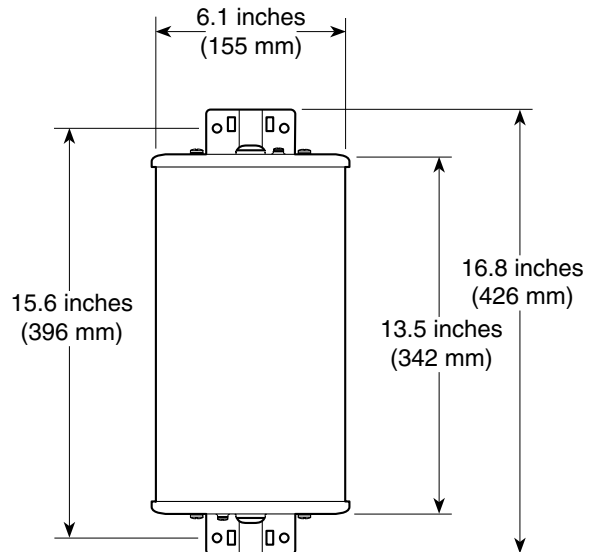
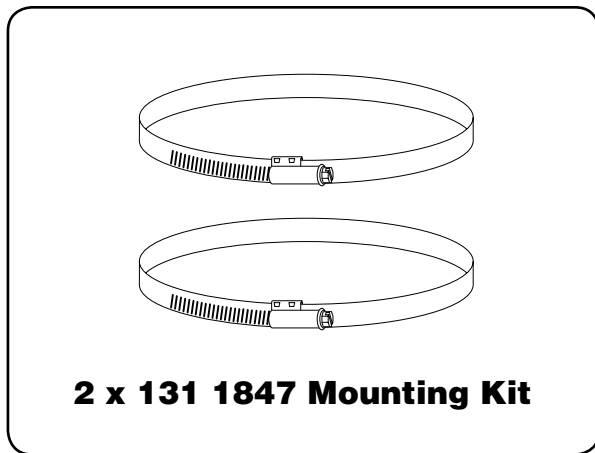
Vertical pattern
±45°- polarization

Specifications:	1710–1880 MHz	1850–1990 MHz	1920–2170 MHz
Gain	11.3 dBi	11.5 dBi	11.6 dBi
+45° and -45° polarization horizontal beamwidth	86° (half-power)	87° (half-power)	88° (half-power)
+45° and -45° polarization vertical beamwidth	28° (half-power)	26° (half-power)	26° (half-power)
Sidelobe suppression vertical sector ±45°	>20 dB	>20 dB	>20 dB
Cross polar ratio			
Main direction 0°	20 dB (typical)	25 dB (typical)	20 dB (typical)
Sector ±60°	>18 dB	>18 dB	>15 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.



10706-F
936.2198/c



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.

Order Information:

Model	Description
741 984	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.

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