

Kathrein panels are antenna products for wireless communications.

All ADT panels feature:

- Heavy-duty construction using the highest quality materials: UV resistant pultruded fiberglass radomes, stainless steel fasteners and hardware, rigid aluminum reflectors, and low loss coaxial cable power divider harness, all contributing to long, trouble free service life.
- Superior electrical specifications including low VSWR, wide bandwidth, flat frequency response, and superb intermodulation performance.
- Precision continuously adjustable electrical downtilt controls, manual control as standard equipment, with remote control available as an option.
- Will accommodate future 3G / UMTS applications.

General specifications:

Frequency range	1710–2170 MHz	
Impedance	50 ohms	
VSWR	< 1.5:1	
Intermodulation (2x20w)	IM3: <-150 dBc	
Polarization	+45° and -45°	
Front-to-back ratio	>25 dB (co-polar) >25 dB (total power)	
Maximum input power	300 watts per input (at 50°C)	
Electrical downtilt continuously adjustable	0–8 degrees (manual or optional remote control)	
Connector	4 x 7/16 DIN female	
Isolation	>30 dB	
Cross polar ratio		
Main direction	0°	25 dB (typical)
Sector	±60°	>10 dB
Weight	34.2 lb (15.5 kg)	
Dimensions	51.3 x 11.8 x 2.7 inches (1304 x 299 x 69 mm)	
Equivalent flat plate area	5.48 ft ² (0.509 m ²)	
Wind survival rating*	120 mph (200 kph)	
Shipping dimensions	62.6 x 12.7 x 4.3 inches (1589 x 322 x 108 mm)	
Shipping weight	37.5 lb (17 kg)	
Mounting	Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.	

See reverse for order information.

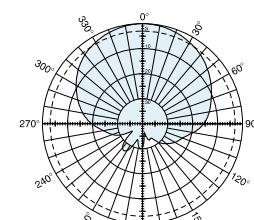
Specifications:

	1710–1880 MHz	1850–1990 MHz	1920–2170 MHz
Gain	17.5 dBi	17.7 dBi	17.8 dBi
+45° and -45° polarization horizontal beamwidth	66° (half-power)	65° (half-power)	64° (half-power)
+45° and -45° polarization vertical beamwidth	7° (half-power)	6.7° (half-power)	6.5° (half-power)
Sidelobe suppression for first sidelobe above main beam	0° 2° 5° 8° T 17 17 15 15 dB	0° 2° 5° 8° T 20 20 18 18 dB	0° 2° 5° 8° T 20 20 18 16 dB

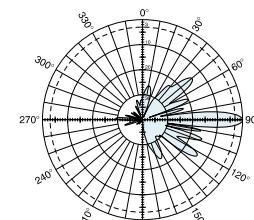
* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



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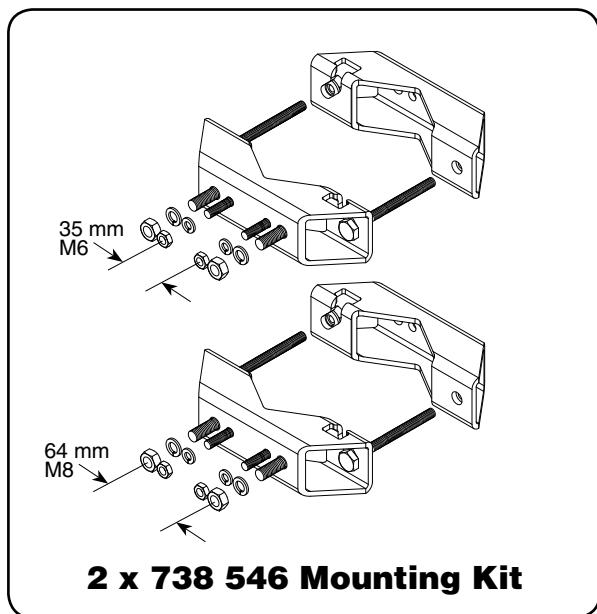


Horizontal pattern
±45° polarization



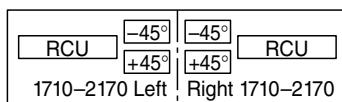
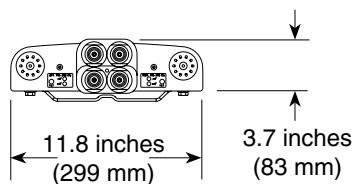
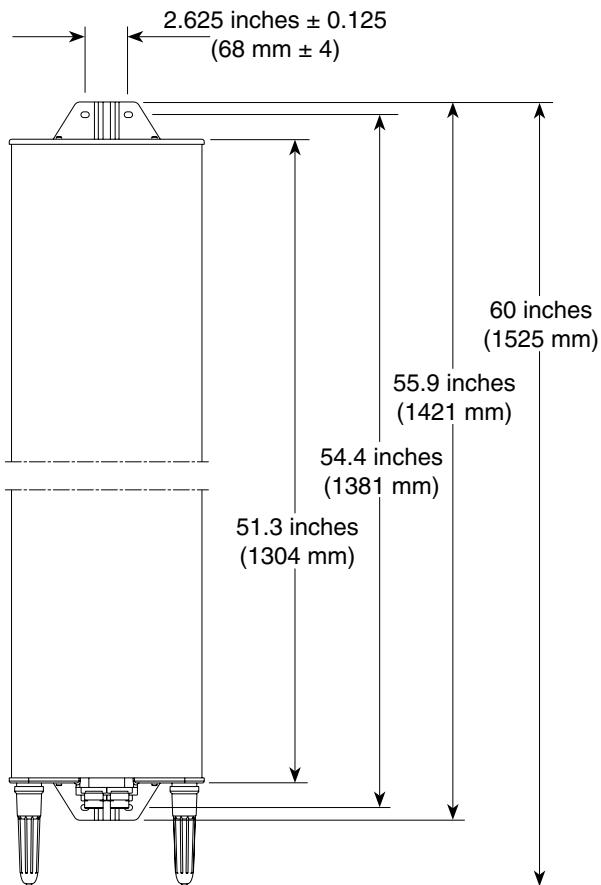
Vertical pattern
±45° polarization





Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
737 978	Tilt Mount Kit 0–16 degrees downtilt angle.



Layout of interface

Order Information:

Model	Description
742 234	Antenna with 7/16 DIN connectors 0°–8° adjustable electrical downtilt

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.