

65° Triple-band Directional Antenna

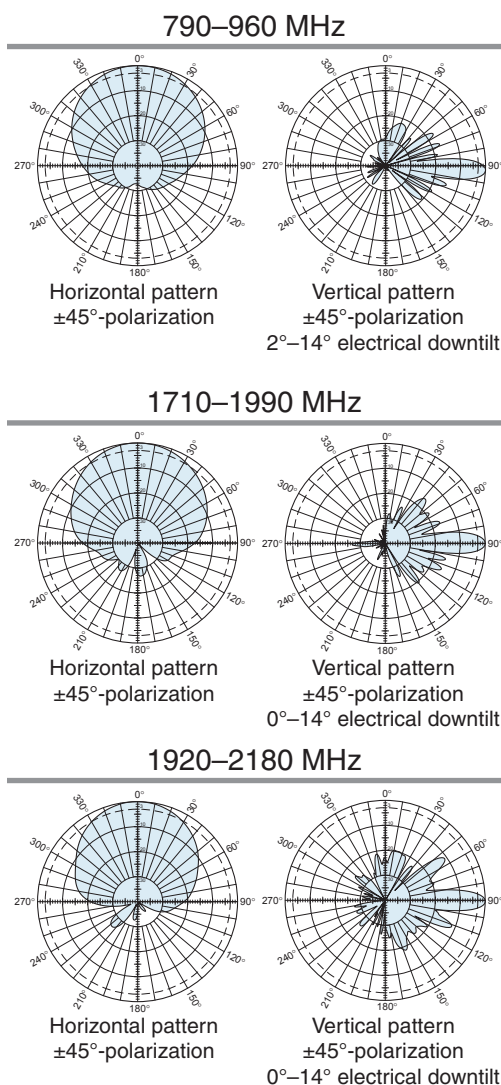
Kathrein's multi-band antennas are ready for 4G applications, covering all existing wireless bands for AMPS, PCS and 3G/UMTS as well as all spectrum under consideration for future systems. These cross-polarized antennas offer diversity operation in the same space as a conventional 800 MHz antenna, and are mountable on our compact sector brackets.

- Wide band operation.
- Exceptional intermodulation characteristics.
- Remote control ready.
- Various gain, beamwidth and downtilt ranges.
- AISG compatible.
- High strength pultruded fiberglass radome.

General specifications:

Frequency range	790–960 MHz 1710–2180 MHz
Impedance	50 ohms
VSWR	<1.5:1
Intermodulation (2x20w)	IM3: <-153 dBc
Polarization	+45° and -45°
Connector	6 x 7-16 DIN female (long neck)
Isolation intrasystem intersystem	>30 dB >35 dB (790–960 // 1710–2180 MHz) >30 dB (1710–2180 // 1710–2180 MHz)
Weight	59.2 lb (27 kg) 63.9 lb (29 kg) clamps included
Dimensions	81 x 10.3 x 5.9 inches (2058 x 262 x 149 mm)
Wind load Front/Side/Rear	at 93 mph (150kph) 144 lbf / 90 lbf / 214 lbf (640 N / 400 N / 950 N)
Mounting category	M (Medium)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	93.9 x 11.1 x 7.2 inches (2385 x 282 x 182 mm)
Mounting	Fixed mounts for 2 to 4.6 inch (50 to 115 mm) OD masts are included and tilt options are available.

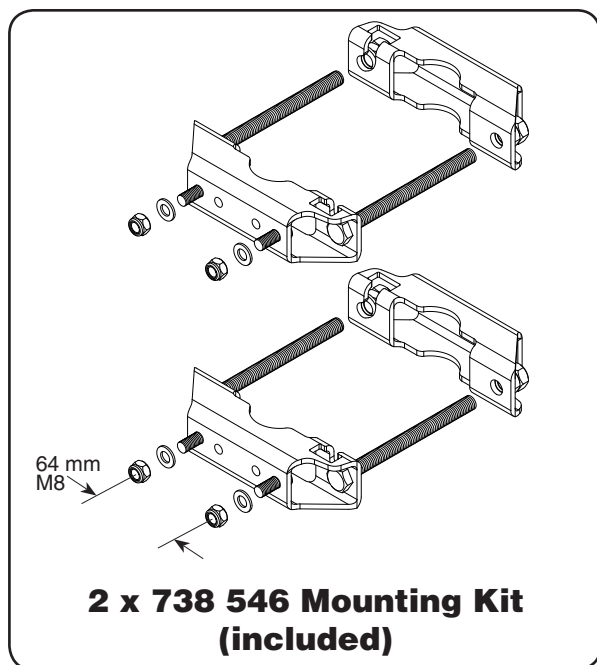
See reverse for order information.



Specifications:	790–866 MHz	824–894 MHz	880–960 MHz	1710–1880 MHz	1850–1990 MHz	1920–2180 MHz
Average gain (dbi)	2° 8° 14° T 16.2 16 15.7	2° 8° 14° T 16.3 16.1 15.8	2° 8° 14° T 16.4 16.2 15.8	0° 7° 14° T syst 1 15.9 15.9 15.5 syst 2 15.8 15.8 15.4	0° 7° 14° T 16.2 16.2 15.7 16.1 16.1 15.4	0° 7° 14° T 16.3 16.3 15.8 16.3 16.2 15.5
Front-to-back ratio (180°±30)	>25 dB	>25 dB	>25 dB	>25 dB	>25 dB	>25 dB
Maximum input power per input (at 50°C)	400 watts	400 watts	400 watts	250 watts	250 watts	250 watts
+45° and -45° polarization horizontal beamwidth vertical beamwidth	68° (half-power) 10° (half-power)	67° (half-power) 9.7° (half-power)	65° (half-power) 9.3° (half-power)	65° (half-power) 9.5° (half-power)	64° (half-power) 9° (half-power)	60° (half-power) 8.7° (half-power)
Electrical downtilt continuously adjustable	2°–14° (manual or optional remote control)	2°–14°	2°–14°	0°–14°	0°–14°	0°–14°
Sidelobe suppression for first sidelobe above main beam (dB)	2° 8° 14° T 17 17 15	2° 8° 14° T 17 17 16	2° 8° 14° T 17 17 16	0° 7° 14° T 18 17 17	0° 7° 14° T 18 17 17	0° 7° 14° T 18 17 17
Cross polar ratio Main direction Sector	0° ±60°	25 dB (typical) >10 dB	25 dB (typical) >10 dB	18 dB (typical) >10 dB	19 dB (typical) >10 dB	20 dB (typical) >10 dB
Tracking		1.0 dB			1.0 dB	

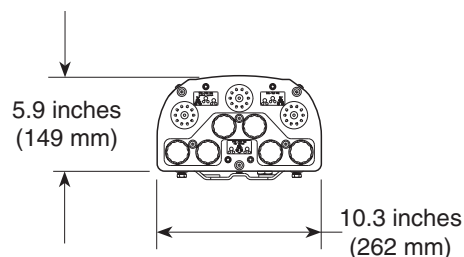
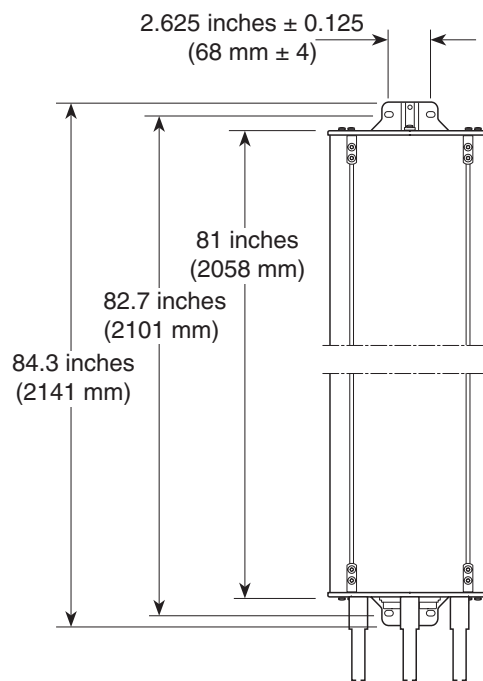


* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

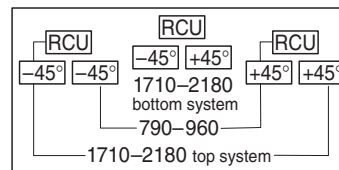


Mounting Options:

Model	Description
2 x 738 546 (included)	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast. 4.4 lb (2 kg)
850 10013	Tilt Mount Kit 0–11 Degrees downtilt angle.



Profile PA3



Layout of interface

Order Information:

Model	Description
800 10291V02	Multiband directional antenna

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

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com