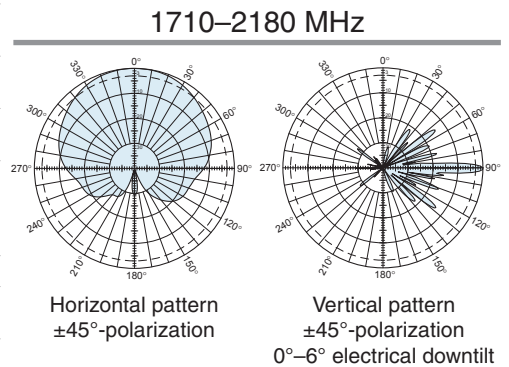
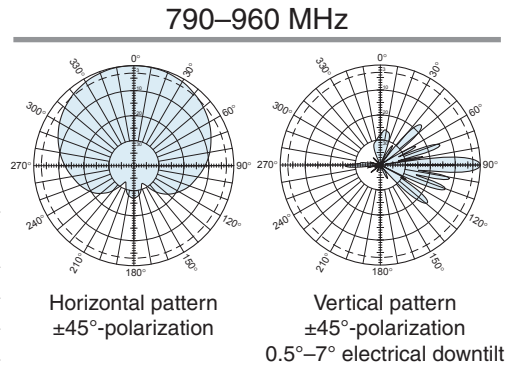


- Wide band operation.
- Exceptional intermodulation characteristics.
- Remote control ready.
- AISG compatible.
- High strength pultruded fiberglass radome.

General specifications:

Frequency range	790–960 MHz 1710–2180 MHz
Impedance	50 ohms
VSWR	<1.5:1
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Connector	4 x 7-16 DIN female (long neck)
Isolation	intrasystem >30 dB intersystem >45 dB (790–960 // 1710–2180 MHz)
Weight	72.8 lb (33 kg) 77.2 lb (35.kg) clamps included
Dimensions	103.7 x 10.3 x 5.9 inches (2635 x 262 x 149 mm)
Wind load	at 93 mph (150kph) Front/Side/Rear 189 lbf / 115 lbf / 284 lbf (840 N) / (510 N) / (1260 N)
Mounting category	H (Heavy)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	116.8 x 11.1 x 7.2 inches (2966 x 282 x 182 mm)
Shipping weight	89.9 lb (40.8 kg)
Mounting	Fixed mounts for 2 to 4.6 inch (50 to 115 mm) OD masts are included and tilt options are available.

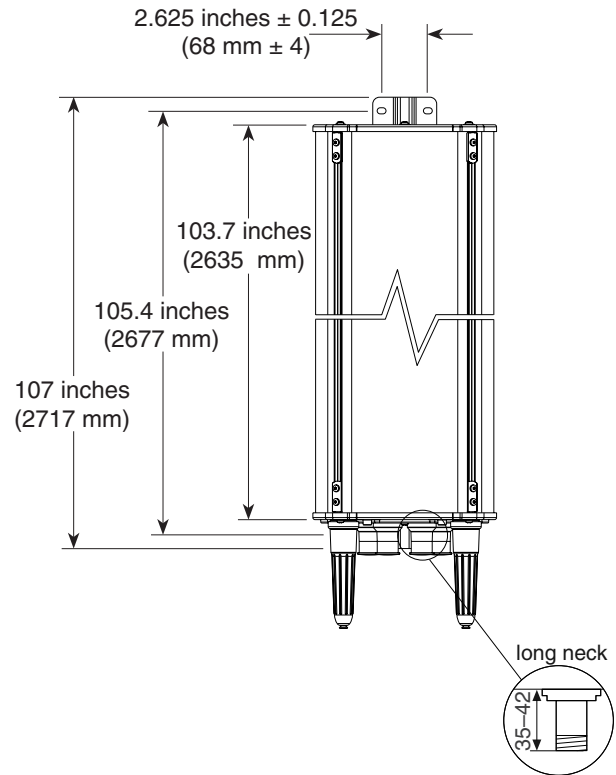
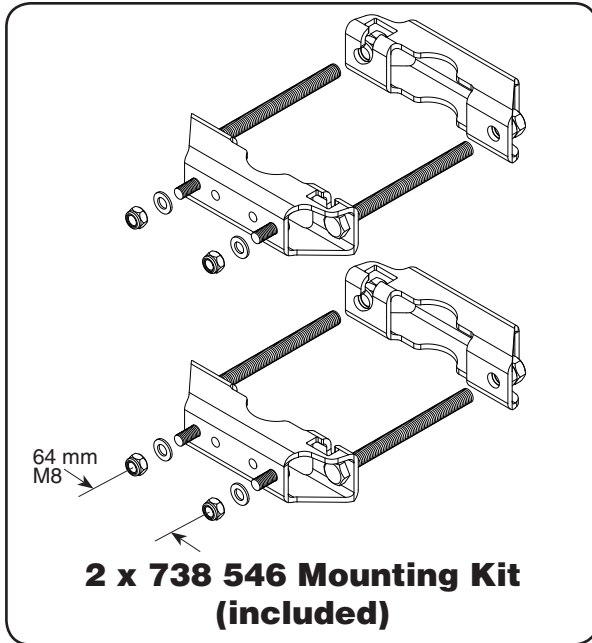
See reverse for order information.



Specifications:	790–862 MHz			824–894 MHz			880–960 MHz			1710–1880 MHz			1850–1990 MHz			1920–2180 MHz		
Average gain (dBi)	16.1	16.2	16.1	16.3	16.4	16.3	16.5	16.6	16.5	17.8	17.7	17.4	18	17.9	17.4	17.9	17.8	17.3
Tilt	0.5°	4°	7°	0.5°	4°	7°	0.5°	4°	7°	0°	3°	6°	0°	3°	6°	0°	3°	6°
Front-to-back ratio	>25 dB (co-polar)			>25 dB (co-polar)			>25 dB (co-polar)			>23 dB (co-polar)			>23 dB (co-polar)			>23 dB (co-polar)		
+45° and -45° polarization horizontal beamwidth	86° (half-power)			86° (half-power)			86° (half-power)			84° (half-power)			85° (half-power)			88° (half-power)		
+45° and -45° polarization vertical beamwidth	7.3° (half-power)			7.2° (half-power)			6.9° (half-power)			4.8° (half-power)			4.5° (half-power)			4.2° (half-power)		
Electrical downtilt continuously adjustable (manual or optional remote control)	0.5°–7°			0.5°–7°			0.5°–7°			0°–6°			0°–6°			0°–6°		
Vertical Pattern–Min. sidelobe suppression for first sidelobe above main beam	0.5°	4°	7° T	0.5°	4°	7° T	0.5°	4°	7° T	0°	3°	6° T	0°	3°	6° T	0°	3°	6° T
	15	14	14 dB	15	14	14 dB	15	14	15 dB	18	17	16 dB	18	17	17 dB	18	16	17 dB
Cross polar ratio (typical)																		
Main direction	0°			18 dB			20 dB			16 dB			16 dB			15 dB		
Sector average	±60°			>10 dB			>13 dB			>10 dB			>12 dB			>10 dB		
	±60°			16 dB			19 dB			16 dB			17 dB			18 dB		
Maximum input power per input (at 50°C) total (at 50°C)				806–960 MHz									1710–2180 MHz					
				500 watts									250 watts					
				1000 watts									500 watts					
Tracking, average				0.5 dB									0.5 dB					
Squint				±3°									±3°					

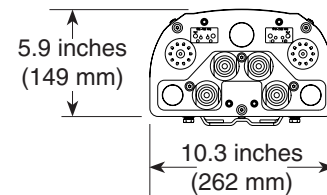


* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

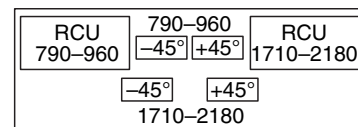


Mounting Options:

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 10007	Tilt Mount Kit 0-8 degrees downtilt angle.



Profile PA3



Layout of interface

Order Information:

Model	Description
800 10123V03	Antenna with 7-16 DIN connectors

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