

- X-polarized (+45° and -45°).
- UV resistant fiberglass radomes.
- Wideband vector dipole technology.
- DC Grounded metallic parts for impulse suppression.
- RET motor housed inside the radome and field replaceable.

General specifications:

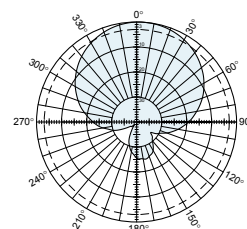
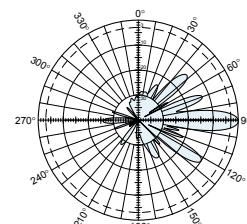
Frequency range	698–894 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Maximum input power	500 watts per input (at 50°C)
Connector	2 x 7-16 DIN female (long neck) (bottom mounted)
Isolation	>30 dB
Electrical downtilt	0.5–9.5 degrees (continuously adjustable)
<i>See reverse for order information.</i>	

Specifications:

	698–806 MHz	824–894 MHz
Gain	16.4 dBi	17 dBi
Front-to-back ratio	>30 dB (co-polar) 35 dB (average)	>30 dB (co-polar) 35 dB (average)
+45° and -45° polarization horizontal beamwidth	67° (half-power)	68° (half-power)
+45° and -45° polarization vertical beamwidth	9.5° (half-power)	8.6° (half-power)
Min. sidelobe suppression for first sidelobe above main beam average	0.5° 5° 9.5° T 16 16 16 dB 18 18 17 dB	0.5° 5° 9.5° T 18 18 17 dB 20 20 20 dB
Cross polar ratio		
Main direction 0°	25 dB (typical)	20 dB (typical)
Sector ±60°	>11 dB, Average: 15 dB	>11 dB, Average: 15 dB

IRT specifications:

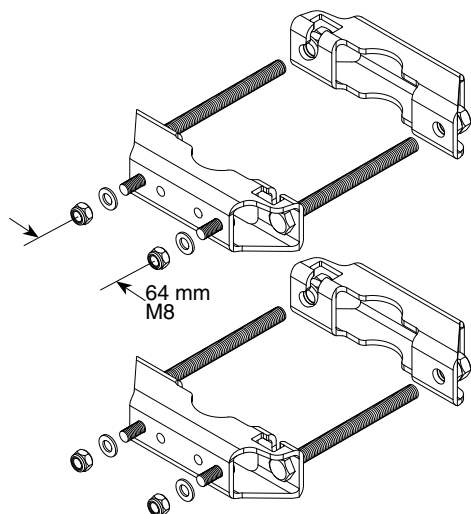
Logical interface ex factory ¹	3GPP/AISG 2.0
Protocols	AISG 1.1 and 3GPP/AISG 2.0 compliant
Hardware interface ²	2 x 8 pin connector acc. IEC 60130-9; according to AISG: – IRT in (male): Control / Daisy chain in – IRT in (female): Daisy chain out
Power supply	10–30 V
Power consumption	<1 watt (standby) <8.5 watts (motor activated)
Adjustment time (full range)	40 sec.
Adjustment cycles	>50,000
Certification	FCC 15.107 Class B Computing Devices


 Horizontal pattern
 ±45°- polarization

 Vertical pattern
 ±45°- polarization
 0.5°–9.5° electrical downtilt


¹⁾ The protocol of the logical interface can be switched from 3GPP/AISG 2.0 to AISG 1.1 and vice versa with a vendor specific command. Start-up operation of the RCU 86010149 is possible in an RET system supporting AISG 1.1 or supporting 3GPP/AISG 2.0 after performing a layer 2 reset before address assignment. The protocol can also be changed as follows: AISG 1.1 to 3GPP: Enter "3GPP" into the additional data field "Installer's ID" and perform a layer 7 reset or a power reset. 3GPP to AISG 1.1: Enter "AISG 1" into the additional datafield "Installer's ID" and perform a layer 2 reset or a power reset. After switching the protocol any other information can be entered into the "Installer's ID" field.

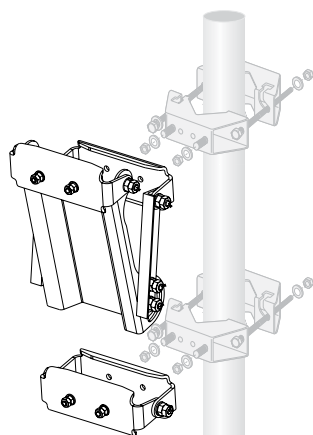
²⁾ The tightening torque for fixing the connector must be 0.5 – 1.0 Nm ('hand-tightened'). The connector should be tightened by hand only!

Single Band Broadband 8', 65 Degree Antenna RET



Mounting Brackets

for use with 2-point mount antennas
Mast dia. 2–4.5 inches (50–115 mm)
Weight: 4.4 lb (2 kg)

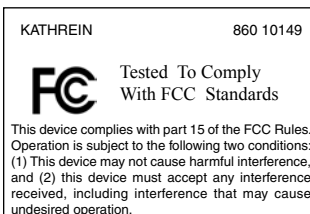
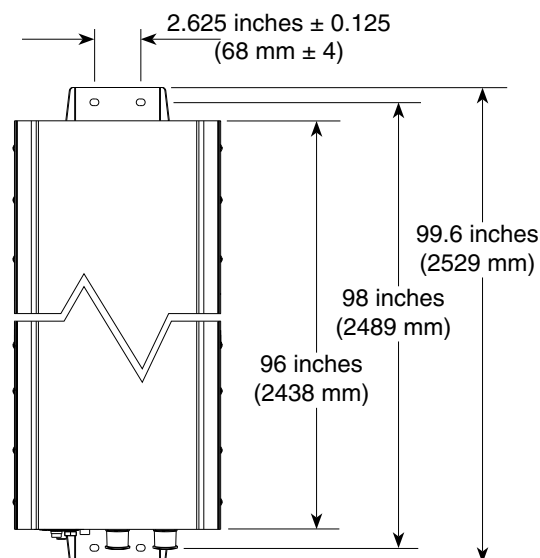


Mechanical Tilt Brackets

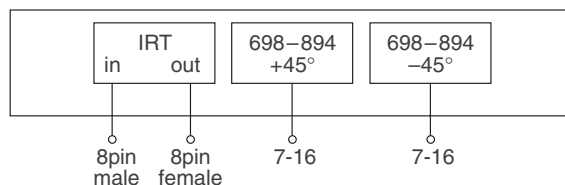
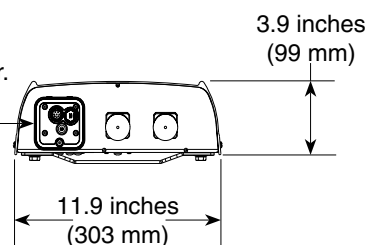
for use with 2-point mount antennas
Weight: 13 lb (5.9 kg)
(Model 850 10007)

Mechanical specifications:

Weight	36.8 lb (16.7 kg)	41.2 lb (18.7 kg) clamps included
Dimensions	H x W x D	96 x 11.9 x 3.9 inches (2438 x 303 x 99 mm)
Wind load	at 93 mph (150kph)	
Front/Side/Rear	261 lbf / 88 lbf / 311 lbf (1160 N) / (390 N) / (1380 N)	
Mounting category	H (Heavy)	
Wind survival rating*	150 mph (240 kph)	
Shipping dimensions	102.4 x 12.4 x 4.5 inches (2600 x 315 x 115 mm)	
Shipping weight	45.2 lb (20.5 kg)	
Mounting bracket	2-point hot-dip galvanized with stainless steel hardware for 2 to 4.5 inch (50 to 115 mm) OD masts.	



Note: Refer to part number 860 10149 for the specifications of the remote control actuator.



Order Information:

Model	Description
800 10736V01	Antenna with mounting bracket 0.5°–9.5° electrical downtilt
800 10736V01K	Antenna with mounting bracket and mechanical tilt bracket 0.5°–9.5° electrical downtilt

* 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.

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