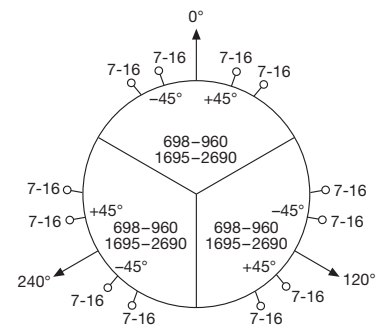


12-Port Tri-Sector Antenna Frequency Range Dual Polarization HPBW Fixed Electr. DT

0°	120°	240°	0°	120°	240°
698-960	698-960	698-960	1695-2690	1695-2690	1695-2690
X	X	X	X	X	X
65°	65°	65°	65°	65°	65°
2°	2°	2°	2°	2°	2°

12-Port Tri-Sector Antenna 698-960/1695-2690 65°/65° 11/13dBi 2°/2°T with GPS

Type No.		80010775		80010776	
Radome Colour		Brown		Grey	
Lowband		Electrical data per sector			
		698-960			
Frequency range	MHz	698 – 824	824 – 894	880 – 960	
Polarization	°	+45, -45	+45, -45	+45, -45	
Gain	dBi	2 x 10.0	2 x 10.6	2 x 11.0	
Horizontal Pattern:					
Half-power beam width	°	73	67	65	
Front-to-back ratio, copolar	dB	> 26	> 26	> 30	
Cross polar ratio					
Main direction	0°	Typically: 19	Typically: 30	Typically: 30	
Sector	±60°	> 10	> 8	> 8	
Vertical Pattern:					
Half-power beam width	°	42	40	36	
Electrical tilt	°	2, fixed			
Impedance	Ω	50			
VSWR		< 1.5			
Isolation				> 25	> 25
Intrasystem		> 26, typ. 30		> 23, typ. 30	
Intersystem	dB	(698-894 // 1695-2690)		(880-960 // 1695-2690)	
Intermodulation IM3	dBc	< -153 (2 x 43 dBm carrier)			
Max. power per input	W	250 (at 50 °C ambient temperature)			
Max. power for the antenna	W	900 (at 50 °C ambient temperature)			



936.5092/b Subject to alteration.

Highband		Electrical data per sector				
		1695–2690				
Frequency range	MHz	1695 – 1880	1850 – 1990	1920 – 2180	2200 – 2490	2490 – 2690
Polarization	°	+45, –45	+45, –45	+45, –45	+45, –45	+45, –45
Gain	dBi	2 x 13.5	2 x 13.5	2 x 13.2	2 x 13.5	2 x 14.0
Horizontal Pattern:						
Half-power beam width	°	60	60	60	60	60
Front-to-back ratio, copolar	dB	> 30	> 30	> 30	> 30	> 30
Cross polar ratio	dB					
Main direction	0°	Typically: 25	Typically: 25	Typically: 25	Typically: 25	Typically: 25
Sector	±60°	> 9	> 9	> 8	> 8	> 8
Vertical Pattern:						
Half-power beam width	°	18	17.5	16.5	14.5	14
Electrical tilt	°	2, fixed				
Impedance	Ω	50				
VSWR		< 1.55		> 28	< 1.6	< 1.5
Isolation	Intrasystem Intersystem	> 30 (1695–2690 // 698–960)				
Intermodulation IM3	dBc	< –153 (2 x 43 dBm carrier)				
Max. power per input	W	200 (at 50 °C ambient temperature)				

GPS specifications

Frequency range	MHz	1575.42 ± 3
LNA gain	dB	27 typical
Pre-amp filtering	dB	–30 at ± 100 MHz
Polarization		Right-hand circular
H-plane beam width		Omni
E-plane half-power beam width	°	105
Connector		N female
DC power	Vdc	+3–5.5, 18–25 mA Through N output connector
Temperature range	° C	–35 to +70

Mechanical specifications

Input	12 x 7-16 connector female	
Connector position	Bottom	
Weight	kg lb	19.2 42.3
Wind load (at Rated Wind Speed: 150 km/h)	N lbf	138 32
Max. wind velocity	km/h mph	242 150
Packing size	mm inches	755 x 480 x 480 29.7 / 18.9 / 18.9
Height / diameter	mm inches	626 / 407 24.6 / 16

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Accessories

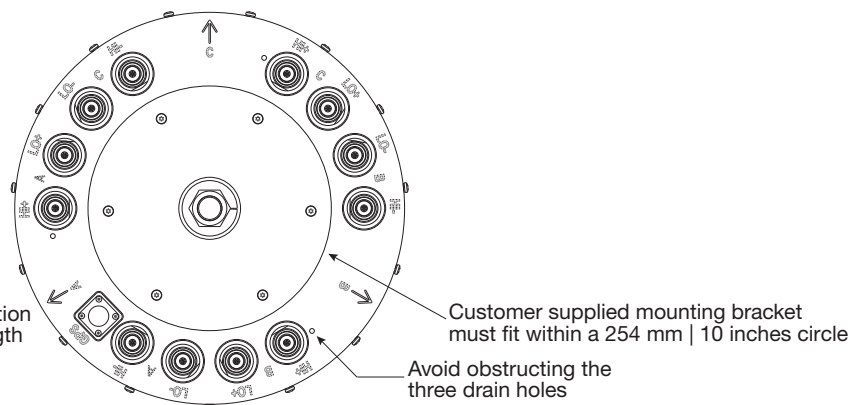
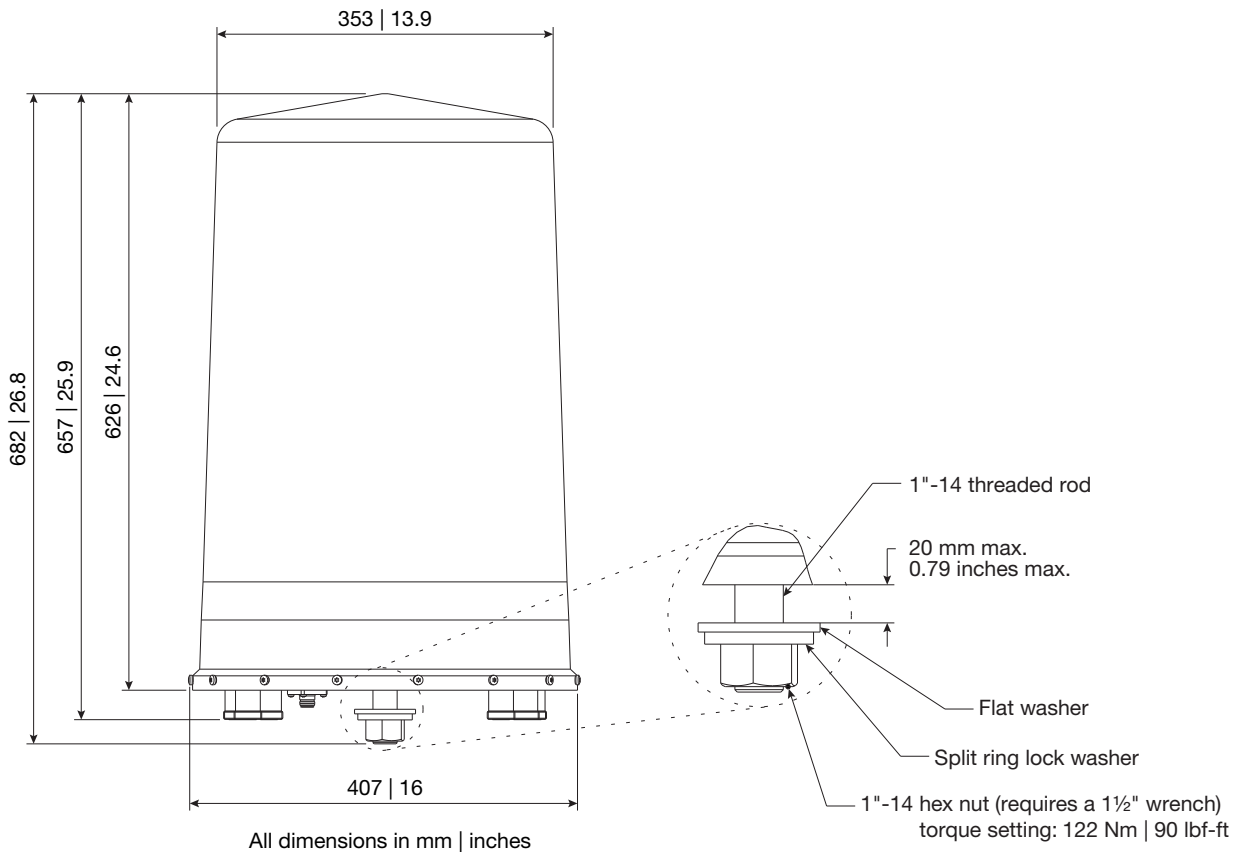
General Information

Antenna area:

Reflector screen: Aluminum. **Radiator:** Tin plated zinc.
Cylindrical fiberglass radome: The max. radome diameter is 407 mm | 16 inches. Fiberglass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting.
 Radome colour **80010775: Brown.**
80010776: Grey.

Mounting:

Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.



936.5092/b Subject to alteration.

Any previous data sheet issues have now become invalid.

All specifications are subject to change without notice.
 The latest specifications are available at www.kathreinusa.com