

Quad-Band Mono-Sector Antenna				
Mono-sector Antenna	790-960 (R1)	1710-1880 (B1)	1920-2170 (B2)	2490-2690 (Y1)
Half Power Beam Width	65°	65°	65°	65°

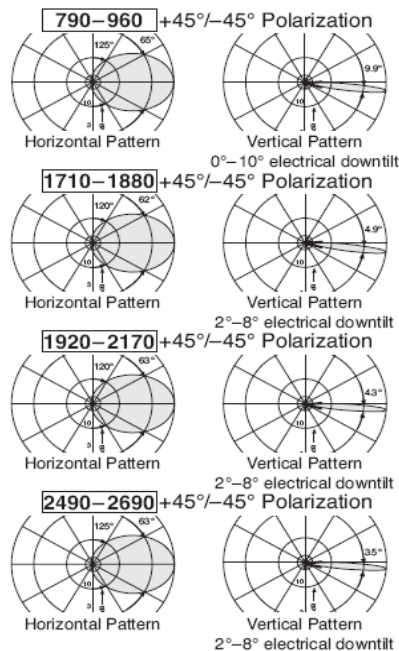
Kathrein 8-Port 790-960/1710-1880/1920-2170/2490-2690 65/65°/65°/65° 15/16.5/16.5/17dBi 0°-10°/2°-8°/2°-8°/2°-8°T

	R1, conn. 1-2			B1, conn. 3-4	B2, conn. 5-6	Y1, conn. 7-8
	Low Band			High Band		
Frequency Range (Mhz)	790-960			1710-1880	1920-2170	2490-2690
	790-862	824-894	880-960	1710-1880	1920-2170	2490-2690
Polarization	+45°,-45°			+45°,-45°	+45°,-45°	+45°,-45°
Average gain (dBi) Tilt	15.9 ... 15.9 ... 15.6 0° ... 5° ... 10°	16.0 ... 16.0 ... 15.7 0° ... 5° ... 10°	16.0 ... 16.1 ... 15.8 0° ... 5° ... 10°	17.5 ... 17.6 ... 17.4 2° ... 4° ... 8°	17.8 ... 18.0 ... 17.5 2° ... 4° ... 8°	17.5 ... 18.0 ... 17.8 2° ... 4° ... 8°
Horizontal Pattern						
Half-power beam width	67°	66°	65°	62°	63°	63°
Front to Back Ratio (dB)	> 27	> 27	> 27	> 25	> 27	> 26
Cross polar ratio	Typically:	Typically:	Typically:	Typically:	Typically:	Typically:
Maindirection (0°)	27 dB	27 dB	22 dB	18 dB	23 dB	24 dB
Sector (± 60°)	> 10 dB	> 10 dB	> 10 dB	> 10 dB	> 10 dB	> 10 dB
Vertical Pattern						
Half-power beam width	10.1°	9.9°	9.5°	4.9°	4.3°	3.5°
Electrical tilt	0°-10° continuously adjustable			2°-8° continuously adjustable		
Sidelobe suppression	0° ... 5° ... 10°T	0° ... 5° ... 10°T	0° ... 5° ... 10°T	2° ... 4° ... 8°T	2° ... 4° ... 8°T	2° ... 4° ... 8°T
-for first sidelobe above main beam	17 ... 15 ... 15 dB	18 ... 15 ... 16 dB	18 ... 16 ... 15 dB	15 ... 17 ... 18 dB	15 ... 17 ... 18 dB	15 ... 17 ... 18 dB
- within 0°-20° sector above horizon	17 ... 15 ... 15 dB	18 ... 15 ... 15 dB	18 ... 15 ... 15 dB	15 ... 16 ... 16 dB	15 ... 17 ... 16 dB	15 ... 17 ... 15 dB
Impedance	50Ω			50Ω	50Ω	50Ω
VSWR	<1.5			<1.5	<1.5	<1.5
Isolation: Intrasystem	> 30 dB			> 28 dB	> 28 dB	> 28 dB
Isolation: Intersystem	>32 dB (1710-1880 // 1920-2170 MHz); >32dB (790-960 // 1710-2170MHz); >32dB (2490-2690 // 790-960...1710-2170 MHz)			>32 dB (1710-1880 // 1920-2170 MHz); >32dB (790-960 // 1710-2170MHz); >32dB (2490-2690 // 790-960...1710-2170 MHz)		
Intermodulation IM3	< - 150 dBc (2 x 43 dBm carrier)			< - 150 dBc (2 x 43 dBm carrier)		
Max. Effective power per port	400 W (at 50°C ambient temperature)			150 W (at 50°C ambient temperature)		
Max effective power port 1-2	800 W (at 50°C ambient temperature)			400 W (at 50°C ambient temperature)		
Max. Effective power for the antenna	900 W (at 50°C ambient temperature)			900 W (at 50°C ambient temperature)		

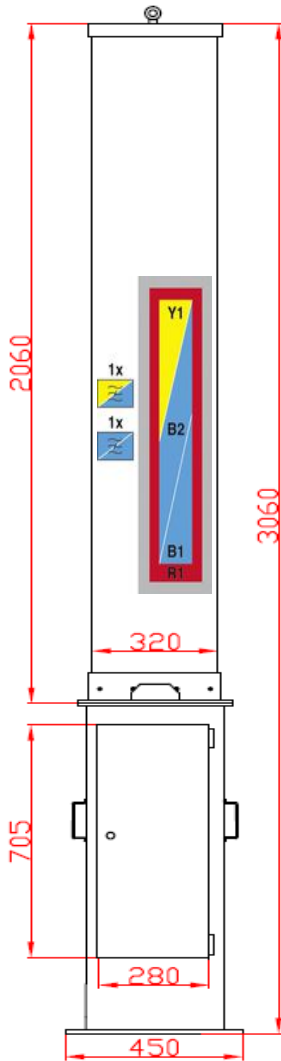
Electrical data per sector. Electrical datas shown in this dataset is subject to change w/o previous notice.



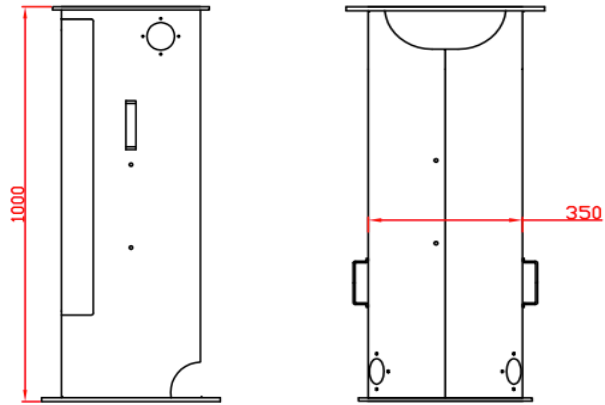
Mechanical Specifications	
Input	8 x 7-16 female
Connector Position	Bottom
Tilt Setting	4 x at bottom
Antenna Weight	45 kg
Service Area Weight	35 kg
Sector Azimuth Adjust.	± 15°
Max Wind Velocity	165 km/h
Antenna Windload at 165 km/h	674N
Antenna height/diameter	2060 / 320 mm
Service Area height/diameter	1000 / 350 mm



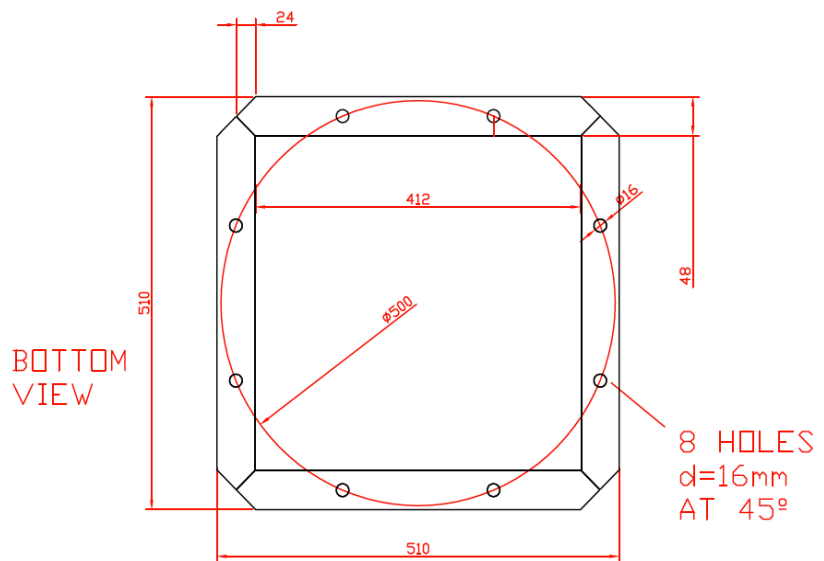
General Information



ECOMAST10



Flange interface



SHIPPING INFORMATION

PACKING	QUANTITY	LxVxH (mm)	WEIGHT
ECOMS685v01	1 x	2120x420x420	50 kg
ECOMAST10	1 x	1050x480x480	40 kg
ECOHINGE	1 x	550x550x140	28 kg

Please note: As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions. The installation team must be properly qualified and also be familiar with the relevant national safety regulations. The details given in our datasheets have to be followed carefully when installing the antennas and accessories. The limits for the coupling torque of RF-connectors, recommended by the connector manufacturers must be obeyed. Any previous datasheets issued has now become invalid.