

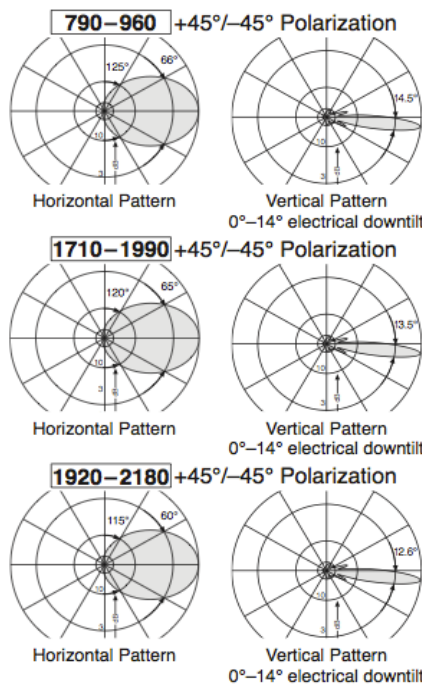
Triple-Band Mono-Sector Antenna			
Mono-sector Antenna	790-960 (R1)	1710-2180 (B1)	1710-2180 (B1)
Half Power Beam Width	65°	65°	65°

Kathrein 6-Port 790-960/1710-2180/1710-2180 65/65°/65° 16.5/16.5/16.5dBi 2°-14°/1°-14°/1-14°T

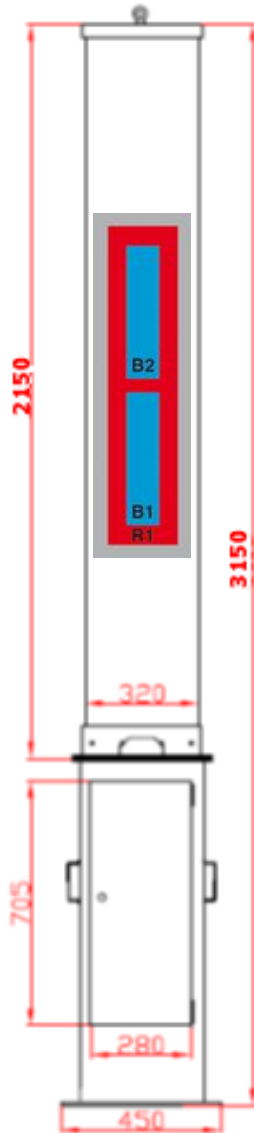
	R1, conn. 1-2			B1, conn. 3-4; B2, conn. 5-6		
	Low Band			High band		
Frequency Range (Mhz)	790-960			1710-2180		
	790-866	824 - 894	880-960	1710 - 1880	1850 - 1990	1920 - 2180
Polarization (°)	±45	±45	±45	±45	±45	±45
Average Gain (dBi)	16.2...16.0...15.7	16.3...16.1...15.8	16.4...16.2...15.8	15.9...15.9...15.5	16.2...16.2...15.7	16.3...16.3...15.8
1710-2180 MHz (Bottom)				15.8...15.8...15.4	16.1...16.1...15.4	16.3...16.2...15.5
1710-2180 MHz (Top)				15.8...15.8...15.4	16.1...16.1...15.4	16.3...16.2...15.5
Tilt	2°...8°...14°	2°...8°...14°	2°...8°...14°	0°...7°...14°	0°...7°...14°	0°...7°...14°
Horizontal Pattern						
Half Power Beam Width	68°	67°	65°	65°	64°	60°
Front to Back Ratio (180 ± 30°) (dB)	> 25	> 25	> 25	> 25	> 25	> 25
Cross Polar ratio Maindirection 0° Sector ±60°	Typically: 25dB > 10dB	Typically: 25dB > 10dB	Typically: 25dB > 10dB	Typically: 18dB > 10dB	Typically: 19dB > 10dB	Typically: 20dB > 10dB
Vertical Pattern						
Half Power Beam Width	10°	9.7°	9.3°	9.5°	9°	8.7°
Electrical tilt	2° - 14°			1° - 14°		
Sidelobe supression for first sidelobe above main beam	2°...8°...14°T 17...17...15dB	2°...7°...14°T 17...17...16 dB	2°...7°...14°T 17...17...16 dB	0°...7°...14°T 18...17...17 dB	0°...7°...14°T 18...17...17 dB	0°...7°...14°T 18...17...17 dB
Impedance	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω
VSWR	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Isolation: Intrasystem	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB	> 30 dB
Isolation: Intersystem	> 35 dB (790-960 // 1710-2180 MHz) > 30 dB (1710-2180 // 1710-2180 MHz)			> 35 dB (790-960 // 1710-2180 MHz) > 30 dB (1710-2180 // 1710-2180 MHz)		
Intermodulation IM3	< - 153 dBc (2 x 43 dBm carrier)					
Max effective power per port Max effective power for the antenna	400W (at 50°C ambient temperature) 900W (at 50°C ambient temperature)			250W (at 50°C ambient temperature) 900W (at 50°C ambient temperature)		

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

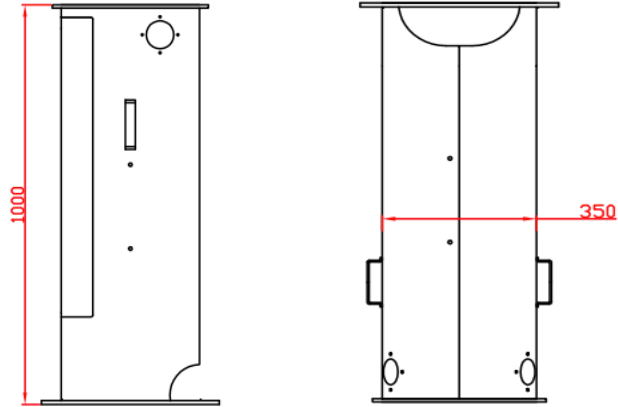
Mechanical Specifications	
Input	6 x 7-16 female
Connector Position	Bottom
Tilt Adjustment	3 x Bottom
Antenna Weight	40 kg
Service Area Weight	35 kg
Fine Azimuth Adjust.	± 15°
Max Wind Velocity	165 km/h
Antenna Windload at 165 km/h	704N
Antenna height/diameter	2150 / 320 mm
Service Area height/diameter	1000 / 350 mm



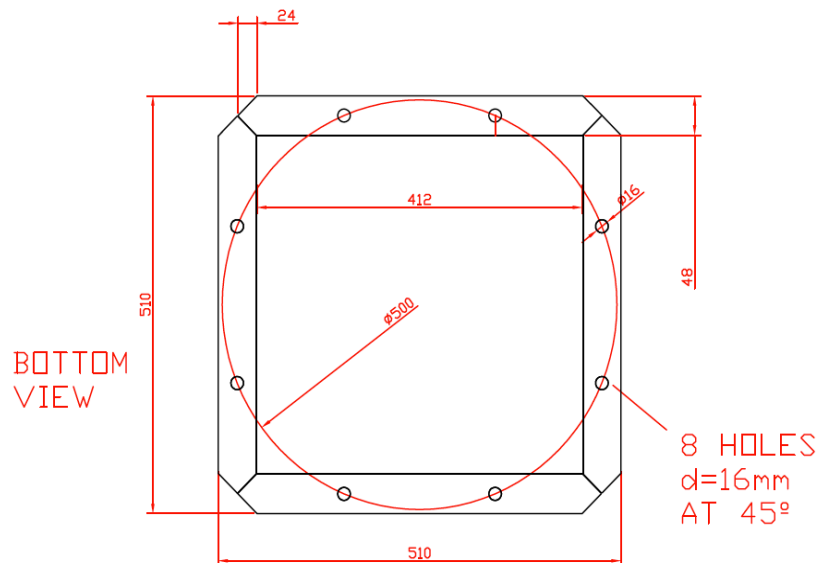
General Information



ECOMAST10



Flange interface



SHIPPING INFORMATION

PACKING	QUANTITY	LxWxH (mm)	WEIGHT
ECOMS291v02	1 x	2210x420x420	50 kg
ECOMAST10	1 x	1040x470x470	40 kg
ECOMSHINGE	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.