

4-stack dipole array TETRA 380-430MHz

DESCRIPTION

The 4104.04 Antenna is a version of the S.M4 four-stack dipole array, designed for improved performance in multi-channel communication systems such as TETRA. High quality materials and manufacturing techniques are employed throughout to ensure that the antenna meets strict intermodulation requirements of multichannel systems. The antenna is supplied as standard with a 5 metre tail terminated with a 7/16 socket. This model has a stronger boom to cope with high wind speeds.

- Former Skymasts brand product.

SPECIFICATIONS

Electrical	
Frequency	380 - 430 MHz
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	21° ±1°
3 dB Beamwidth, H-Plane	160° ±3°
Impedance	50 Ω
Gain	8.7 dBd (10.9 dBi)
SWR	< 1.5:1
Maximum Input Power	500 W
Front-To-Back Ratio	> 7 dB
Passive Intermodulation	-143dBc (3rd Order, 2 x Tx @ 43dBm)
Lightning Protection	Lightning current handling capability: 200 kA According to EN 62305-1 (Test pulse 10/350 µs)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

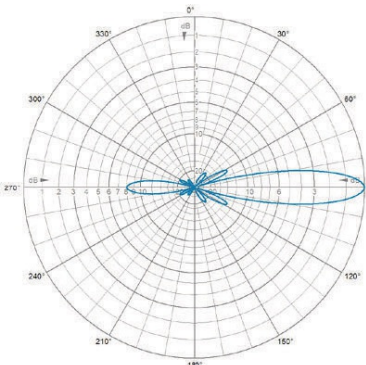
Mechanical			
Connection(s)	7/16(f) on 5m RG214/U cable		
Materials	Antenna elements: Aluminium 6063T6 ø12.7mm Antenna boom: Aluminium 6082T6 ø38.1mm Fasteners: Stainless steel A2		
Length	2600 mm / 102.36 in.		
Wind Load	232 N (160km/h)		
Weight	6 kg / 13.23 lb		
Mounting Bracket	2140.01.00.00 (up to ø60mm) 2141.01.00.00 (up to ø120mm) (Ordered Separately)	0300284/00 + U-bolts to match mounting pipe diameter (Ordered Separately)	ETC-250 (ø50 to ø76mm) (Ordered Separately)

Environmental	
Survival Wind Speed	300 km/h
Ingress Protection	IP68



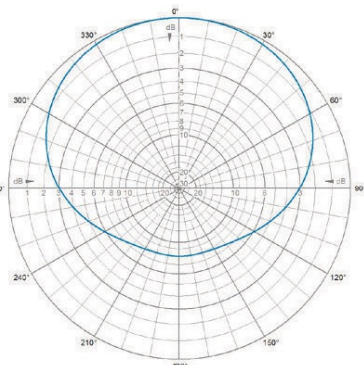
DIAGRAM

RADIATION PATTERNS



E-Plane | 405 MHz | 0°

RADIATION PATTERNS



H-Plane | 405 MHz | 0°

ORDERING

Type	Product No.	Description	Frequency
4-stack dipole array TETRA 380-430MHz	414.04-405-T5	5° Electrical Tilt	380 - 430 MHz
4-stack dipole array TETRA 380-430MHz	414.04-405-T10	10° Electrical Tilt	380 - 430 MHz
4-stack dipole array TETRA 380-430MHz	414.04-405-T15	15° Electrical Tilt	380 - 430 MHz
4-stack dipole array TETRA 380-430MHz	414.04-405-T0	0° Electrical Tilt	380 - 430 MHz
Cast aluminium cross clamp, square	0300284/00		
M8 x 50mm (2") U-Bolts (1 Pair)	4884036/00		
M8 x 75mm (3") U-Bolts (1 Pair)	4884076/00		
M8 x 100mm (4") U-Bolts (1 Pair)	4884035/00		
M10 x 125mm (5") U-Bolts (1 Pair)	4884057/00		
Galvanised steel parallel bracket 25-60mm (PAIR)	2140.01.00.00		
Galvanised steel parallel bracket 38-120mm (PAIR)	2141.01.00.00		
Extruded Parallel Tube Clamp, 50 - 76mm	ETC-250		

