

XPOL panel antenna 65°, 15dBi, 380-470 MHz

DESCRIPTION

The 760/766 series of UHF Panel antenna has been designed for TETRA / UHF Trunked Radio applications, offering a stable performance an PIM specification over a wide bandwidth. Available in VPOL and XPOL formats, the main housing of the antenna is made from corrosion resistant marine grade aluminium. The antennas compact design gives very low wind loading characteristics, and combined with the low weight of the antenna, aids in the reduction of structural loading.

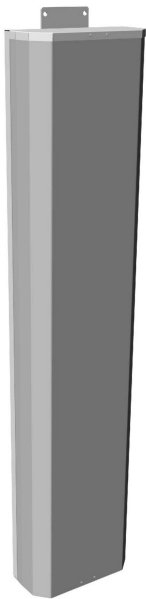
- Former Skymasts brand product.

SPECIFICATIONS

Electrical	
Frequency	380 - 470 MHz
Max. Input Power	2 x 400 W
Polarisation	±45°
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	17° ±2°
3 dB Beamwidth, H-Plane	68° ±5°
Impedance	50 Ω
Gain	12.9 dBd (15 dBi)
Port-Port Isolation	≥ 27dB
VSWR	< 1.5:1
Front-To-Back Ratio	> 23 dB
Cross Polar Discrimination	30 dB
Passive Intermodulation	-153dBc (3rd Order, 2 x Tx @ 43dBm)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Mechanical	
Connection(s)	7/16 DIN(f)
Materials	Radome: White ASA UV resistant Housing: Aluminium 5083 (marine)
Dimensions	1840 x 400 x 170 mm
Wind Load	593 N (160km/h)
Weight	12.5 kg / 27.56 lb
Mounting Bracket	Fixed Bracket: 766.700 (Ordered Separately)
Alternate Mounting Bracket	Tilt bracket: 766.7010 (0 - 12°) 766.7020 (0 - 22°) (Ordered Separately)
Environmental	
Operating Temperature Range	-40 to 75 °C
Survival Wind Speed	270 km/h
Ingress Protection	IP56

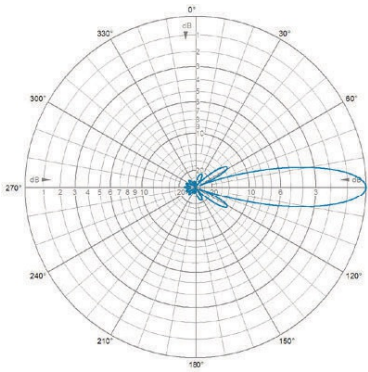
ORDERING

Type	Product No.	Description	Frequency
XPOL panel antenna 65°, 15dBi	766.65.15.00	7/16(f) termination, 0° Tilt	380 - 470 MHz
XPOL panel antenna 65°, 15dBi	766.65.15.06	7/16(f) termination, 6° Tilt	380 - 470 MHz
XPOL panel antenna 65°, 15dBi	766.65.15.00-N	N(f) termination (not PIM specified), 0° Tilt	380 - 470 MHz
Bracket kit for 760/766 panel (no tilt)	766.700		
Bracket kit for 760/766 panel (large), 0-12dg	766.7010		



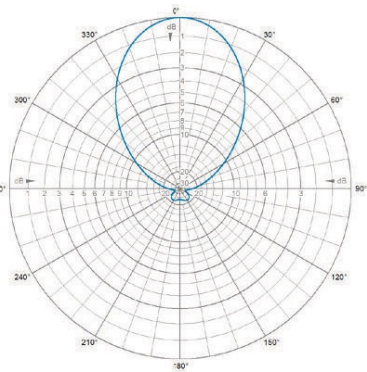
DIAGRAM

RADIATION PATTERNS



E-Plane | 425 MHz

RADIATION PATTERNS



H-Plane | 425 MHz