Model DPC4

- **Band II panel**
- **Broadband 87.5÷108 MHz**
- **Demountable**
- **Circular polarization**
- **Directional pattern**
- **Suitable as a component in various array**
- **Dipole Inox AISI304**

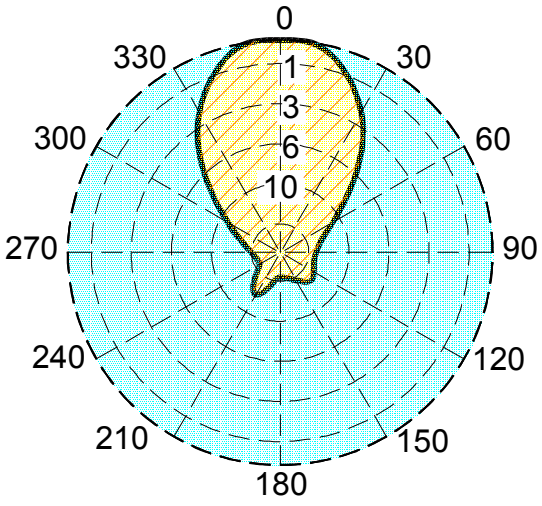
ELECTRICAL DATA

Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connectors	Four input connectors Type 7/8" EIA or 7/16" DIM
Max Power	20KW (5KW for each input))
VSWR	≤ 1.2 in circular polarization max.
Polarization	Circular
Gain	4.5 dB (referred to half wave dipole: Circular polarization) 7.5 dB (referred to half-wave dipole: Linear polarization)
Half power beam width	E plane ± 32° (Vertical) H plane ± 30° (Horizontal)
Lightning protection	All metal parts DC grounded

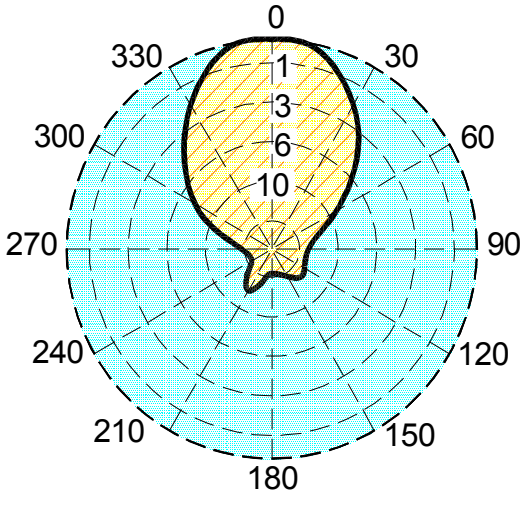
MECHANICAL DATA

Dimensions	2200x2200x1050 mm
Weight	95 Kg
Wind surface	0.960 m^2
Wind load **Max wind velocity**	187 kg (wind speed at 150 km/h) 220 km/h. (Safety factor → 2)
Materials	Reflector: hot dip galvanized steel Dipole: stainless steel AISI304 Internal parts: anticorodal aluminium Radome: fiberglass (option)
Icing protection	Feed point radome (optional)
Radome color	White (optional)
Mounting	Directly on supporting mast

RADIATION PATTERN (MID BAND)



E-plane



H-plane

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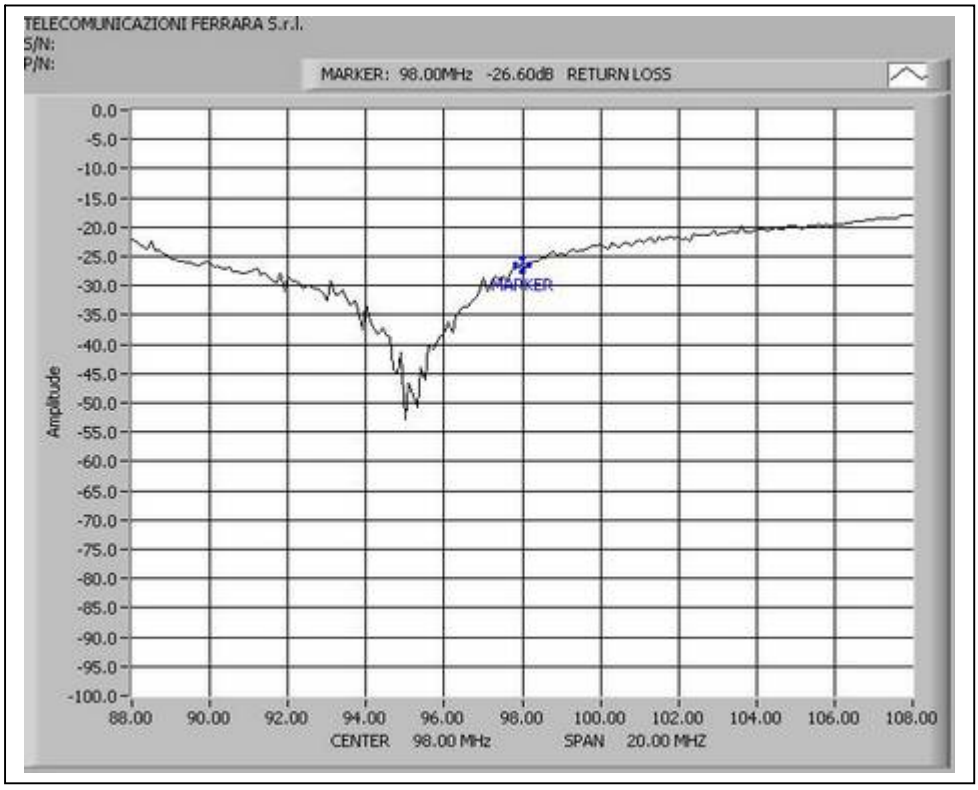
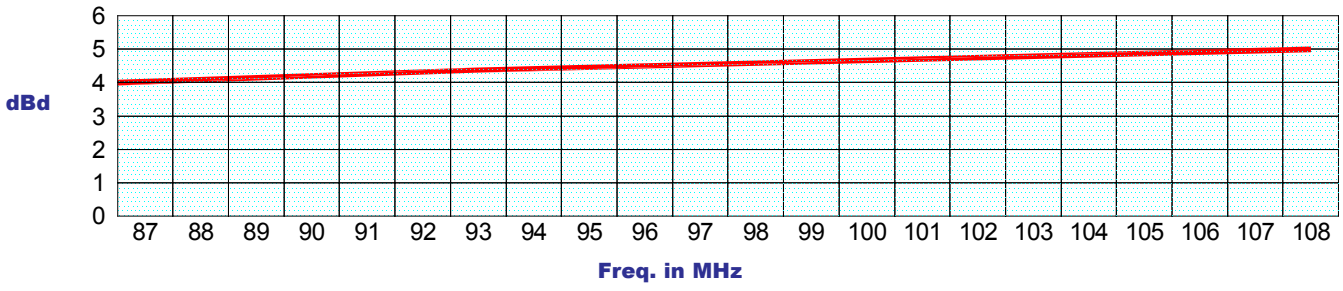
RETURN LOSS



GAIN



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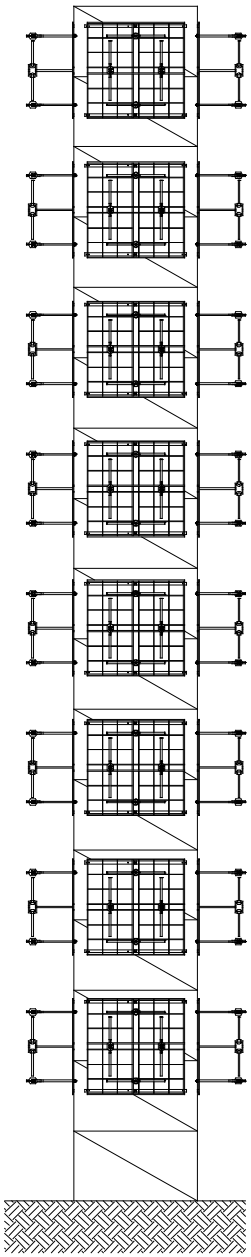
Pannel Circular Polarization directional pattern



Broadband 87.5÷108 MHz

High power system

Omni-directional or directional pattern

Balanced or unbalanced splitting power

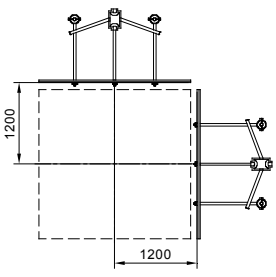
ELECTRICAL DATA

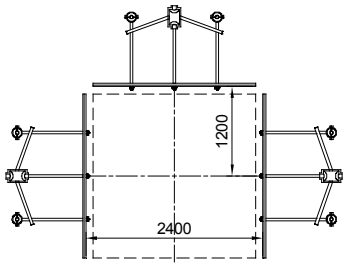
Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connector	EIA flange according to system power rating
VSWR	≤ 1.15 (throughout the frequency range (Lower figures for individual channels on request)
Polarization	Circular
Gain	According to requirement
Horizontal pattern	Any type according to requirements
Vertical pattern	Null fill, beam tilt and special requirements to order
Other facilities	The antenna system can be supplied in split feed with two equal half antennas. Each half can accept full power (option)

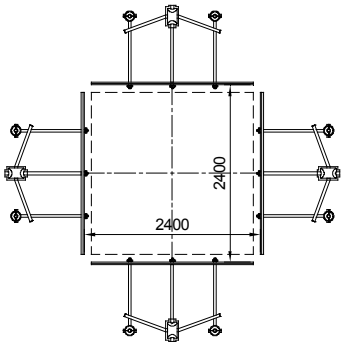
MECHANICAL DATA

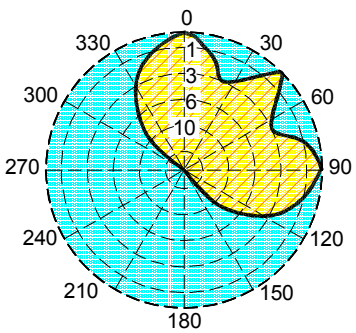
Height of array	Subject to number of bays (refer to table)
Total net weight	Refer to table
Wind load	Refer to table
Pressurizzable	Yes (on request)
Radome colour	White (optional)
Mounting hardware	Hot dip galvanized steel clamps (option)
Shipping	As required

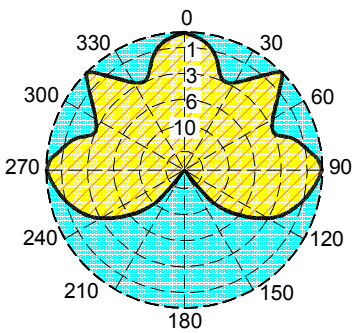
Horizontal Patterns with 2, 3 and 4 faces at 98 MHz

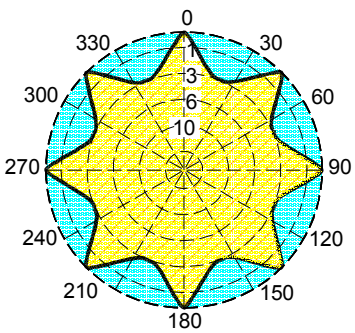








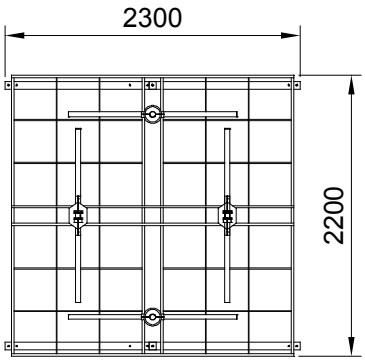


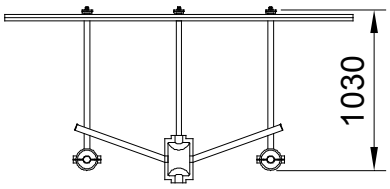


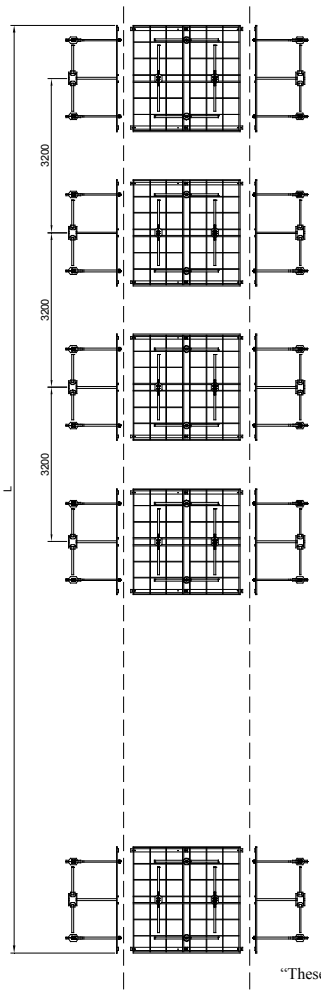
TECHNICAL DATA

Number of bays	Panels per bay	Gain[1]		Weight[2]	Antenna height L m	Wind load[3] (v=150 km/h) kg
		dB	times	kg		
1	2 3 4	1.85 0.3 -0.65	1.53 1.01 0.86	210 340 440	2.2	296 370 440
2	1 2 3 4	7.5 5.0 3.35 2.45	5.62 3.16 2.16 1.76	210 440 790 880	5.4	376 592 740 880
4	1 2 3 4	10.5 7.8 6.3 5.55	11.22 6.03 4.27 3.59	752 1184 1480 1760	11.8	752 1184 1480 1760
6	1 2 3 4	12.3 9.9 8.4 6.95	16.98 9.77 6.92 4.96	1128 1776 2220 2640	18.2	1128 1776 2220 2640
8	1 2 3 4	13.7 10.95 9.5 8.5	23.44 12.45 8.91 7.08	1504 2368 2960 3520	26.6	1504 2368 2960 3520

[1] referred to a half wave dipole. Attenuation of connecting cables not taken into account.
[2] without mounting hardware
[3] according to the tower type, for more details contact us







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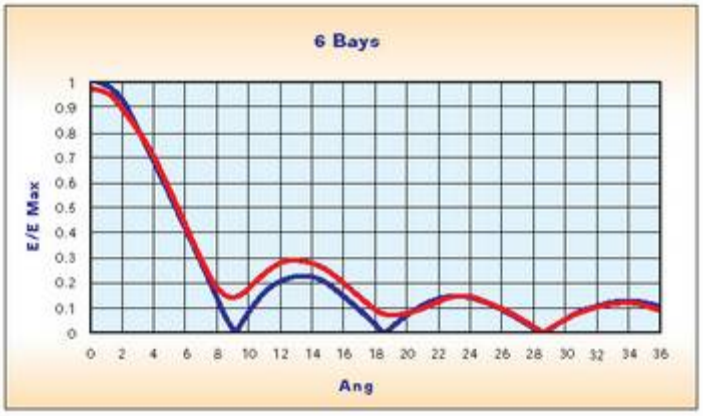
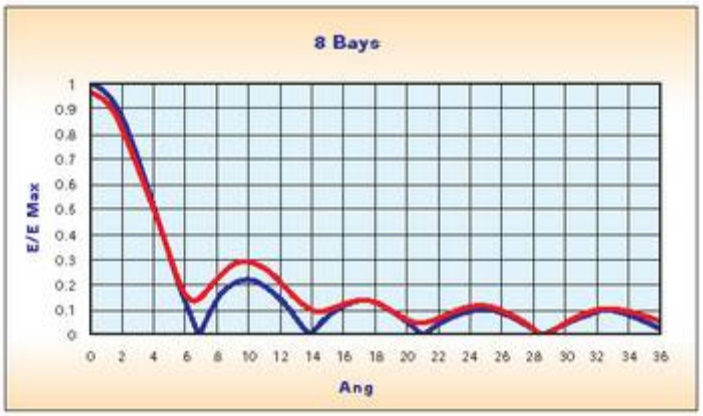
VERTICAL PATTERN

Without null fill

With null fill and beam tilt





- Gain is provided for vertical polarization.
- If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR.
- Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.
- Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided.
- Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- Five ft(1.6mt) of pipe required above the top bay and below the bottom bay for to protect from pattern interference by other antennas.
- Antenna wind load is calculated for 100 Mph (160Km/h) per EIA-222-C standard.