

**698-806 MHz**

**700 MHz Band**



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***700 MHz Base Station Omni Panel Antenna***

***Model SVP700-360***



Broadband panel array covering the 698-806 MHz spectrum. The panels are arranged in an array of 4 individuals mounted in each bay every 90 degrees. This produces an omni pattern, while maintaining very low VSWR across the entire band. The array can be top mounted or side mounted to an existing tower without affecting pattern linearity.

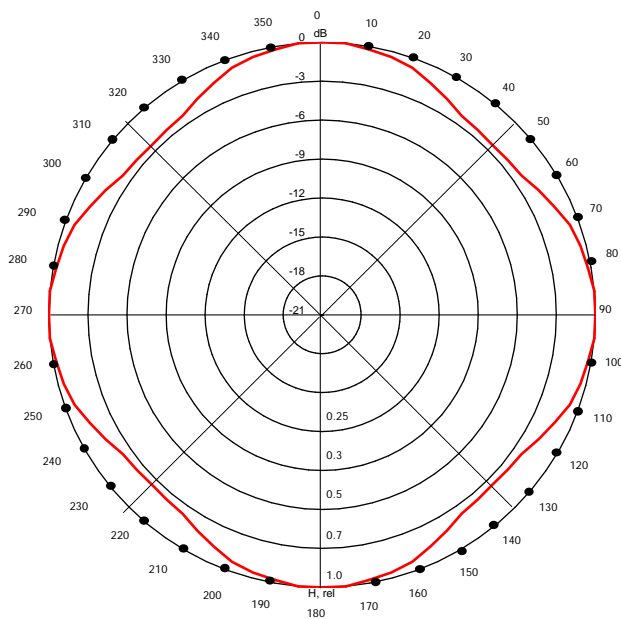
Additional bays can be stacked vertically to achieve desired gain.

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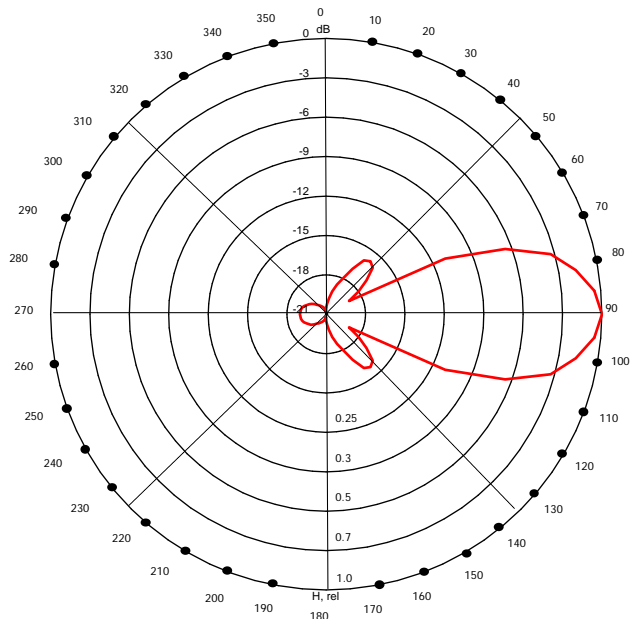
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**Electrical**



V pol - Horizontal Radiation Pattern (4 around array)



V pol - Vertical Radiation Pattern (single bay)

Frequency Range:	698-806 MHz
Input connector:	N female or 7-16 female
VSWR:	< 1.15
Gain:	5.5 dBd single bay
Polarization:	Vertical
Impedance:	50 $\Omega$
Max. input power:	500 w (N connector) or 2 kW (7-16 DIN connector)

### Mechanical

Exterior material

Reflector panel: Galvanized sheet metal  
Radome: UV stabilized ASA

Interior material

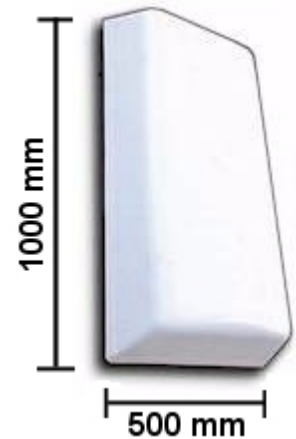
Radiators: Structural Aluminum  
Internal feed: Machined brass

Dimensions: 1000 mm X 500 mm rear panel grid

Grounding: Antenna and radiating elements are DC grounded for lightning protection

Mounting clamps: HDG clamps are available for coverage requirements

Icing protection: Radome protecting radiating elements and feed



# of Bays	Panels per Bay	Total # of Panels	Gain (dBd)	Gain (Pr)	Weight (Kg) w/o mounts	Overall Height (meters)	Windload kN @ 160 km/h
1	4	4	5.5	3.63	48	1.2	1.5
2	4	8	9.1	8.13	96	2.25	3.1
3	4	12	10.9	12.3	144	3.4	4.6
4	4	16	12.2	16.6	192	4.5	6.2
6	4	24	14.1	25.7	288	6.8	9.3
8	4	32	15.2	33.11	384	9	12.4

HDG mounting hardware available to facilitate top or side mount installations.

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Antenna Height { H } in Meters Antenna Spacing { S } in mm		
No of Bays	H	S
1	1.2	-
2	2.25	1150
4	4.5	1150
6	6.8	1150
8	9.0	1150
12	14.0	1150

Weight in KG without mounting hardware			
No. of Bays	Panels / Bay	Total No. of Panels	Weight
1	2	2	24
	3	3	36
	4	4	48
2	2	4	48
	3	6	72
	4	8	96
4	2	8	96
	3	12	144
	4	16	192
6	2	12	144
	3	18	216
	4	24	288
8	2	16	192
	3	24	288
	4	32	384
12	2	24	288
	3	36	432
	4	48	576

