

# Product Specification Sheet

## Dual Broadband Antenna



**Model :ST-DBB-65/65-12/14-FET0-Di**  
**XXpol ,820-960/1710-2170MHz, 12/14 dBi, 65°/65°, FET 0°/0°**

### Electrical Specifications

Frequency range (MHz)	820-896	880-960	1710-1880	1850-1990	1920-2170
Polarization	± 45°				
Gain (dBi) (Avg.)	11	11.5	13.5	13.7	14
Horizontal Half-power beam width	65	64	67	64	61
Front-to-back ratio (dB)	> 27				
1st Horizontal side-lobe	>18				
1st Vertical side-lobe	>18				
Cross polar ratio	Typically:				
Main direction 0°	15				
Sector ± 60°	10				
Vertical Half-power beam width ( Avg. )	32	30	16	15.5	14.5
Electrical tilt	0°				
Impedance	50 Ω				
VSWR	< 1.5				
Isolation, between ports: Intrasystem (dB)	> 28				
1st Upper side-lobe suppression above main beam	≥12		≥16		
Intermodulation IM3 ( 2x43 dBm carrier ) (dBC)	< -150				
Max power per input (W)	400W/250W (at 50 °C ambient temperature)				

### Mechanical Specifications

Input	2 x 7/16 DIN Female
Connector position	Bottom
Wind load, frontal / lateral / rear side 42 m/s Cd=1.6 (N)	218 x 108 x 243
Mounting brackets	φ 50 mm ~ φ 115 mm
Weight (Without brackets) (kg)	10.5 Kg
Weight (With brackets) (kg)	13.5 Kg
Dimension (H x W x D) (mm)	690 / 270 / 136
Radome Material	UPVC
Radome Color	Light Grey
Operating Temperature (°C)	-40 to +60
Lightning protection	DC grounded

**Antenna Patterns: Supplied details separately**

