Mitel DECT Antennas

For Base Station BS34x and IPBS44x

Directional Dual Antenna

The directional dual antenna consists of two flat directional antennas housed in a plastic shroud. It is fitted with 1 m coaxial cable and an MCX male connector. The antenna includes a side tilt and a wall bracket by which it can be adjusted in a horizontal plane. The antenna can be mounted to a pole of 40 to 90 mm in diameter by means of a steel strap (included).





Typical radiation in horizontal plan

Typical radiation in vertical plan



Product number: NTM/KRENB 101 121/1

Directional Single Antenna

The directional single antenna is a flat directional antenna housed in a plastic shroud, and fitted with 1 m coaxial cable and an MCX male connector. The antenna includes a rotating bracket for wall installation. It can be adjusted in both vertical and a horizontal planes. The mounting bracket can be installed on poles from 30 to 60 mm in diameter using a 10-15 mm steel strap (not included).



Typical radiation in horizontal plan



Typical radiation in vertical plan



Product number: NTM/KRENB 101 118/1



Omndirectional Single Antenna

This single antenna is an omnidirectional 6 dBi colinear antenna fitted with a 1 m coaxial cable and an MCX male connector. It is supported with a wall bracket and a pole mounting clamp. The antenna can be mounted to a pole with diameter of 25 to 37 mm.







Product number: NTM/KRENB 101 118/1

Typical radiation	in
horizontal plan	

Typical radiation in vertical plan

SPECIFICATIONS	DIRECTIONAL DUAL ANTENNA	DIRECTIONAL SINGLE ANTENNA	OMNIDIRECTIONAL SINGLE ANTENNA
Size (h x w x d) (mm)	101 x 95 x 32	270 x 140 x 35 35 mm - panel thickness	375 mm high (above wall mounting bracket)
Weight (kg)	~0.11	~0.82	~0.2 (excl. mounting bracket 70 g)
Material/color	Housing: ASA and aluminium, grey RAL 7035 Radome: ASA, dark grey RAL 7042	Shroud: UV resistant plastic, grey RAL 7035 Bracket: aluminium zamak	Shroud: fiberglass, grey Upper cap: plastic, black Base: plastic black Wall bracket: fiberglass, grey Pole mounting clamp: stainless steel

ENVIRONMENTAL

Operating and storing temperature	-40 to +80 °C	-35 to +55 °C	-33 to +55 °C
FUNCTIONAL SPECIFICATIO	N		
Frequency range	1850 to 1990 MHz	1880 to 1920 MHz	1850 to 1990 MHz
Nominal impedance	50 Ohms	50 Ohms	50 Ohms
VSWR	1.5	=< 1.6	=< 1.6
Polarization	Dual linear, +/- 45° slant	Linear, vertical	Linear, vertical
Gain	8 dBi	10.5 dBi +/- 0.3 dBi	6 dBi +/- 0.3 dBi
Radiation in horizontal plane (H-plane)	Beam width at -3 dB: 85°	Beam width at -3 dB: 64°	Omnidirectional within +/-3 dB
Radiation in vertical plane (E-plane)	Beam width at -3 dB: 75°	Beam width at -3 dB: 33°	Beam width at -3 dB: 24°
Down tilt	0°		
Front to back ratio	12 dB		
Isolation between ports	30 dB		
Connector	MCX male connector at the end of 1m ENVIROFLEX 316D coaxial cable	MCX male connector at the end of 1m RG316 coaxial cable (min banding radius: 20 mm)	MCX male connector at the end of 1m RG316 coaxial cable (min banding radius: 20 mm)
Orientation capability		+/- 45° in azimuth (H-plane) +/- 15° in elevation (E-plane)	+/- 45° in azimuth (H-plane) +/- 15° in elevation (E-plane)



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