Triple Broadband Antenna

65° 2.6 m MET Antenna

824-960/2x1710-2170 MHz

Part Number: 7785.00

Horizontal Beamwidth: 65° Gain: 17.4 / 17.5 dBi Electrical Downtilt: Adjustable Connector Type: 7/16 DIN female

The triple band solution from Powerwave offers a flexible antenna option for operators seeking excellent RF-performance as well as fast and successful roll-out of their next-generation networks. Designed to overcome UMTS deployment challenges, such as space and installation issues as well as those of co-siting in demanding radio environments, these antennas include the Powerwave patented Manually-adjustable Electrical Tilt (MET) function, which offers operators flexibility in tuning antenna systems as well as logistical advantages. The Powerwave Triband antenna design is based on a patented stacked aperture-coupled patch technology for cellular 800, GSM 900-, GSM1800, PCS 1900 and UMTS 2100 MHz-bands. Finally, the advanced reflector and element structure in combination with a superior feeding network minimizes the weight and maximizes the overall performance of the antenna.



Mechanical Specifications

Connector Type (6 Pcs) Connector Position Dimensions, HxWxD Weight, Excluding Brackets 3.5kg Wind Load, Frontal, 150 km/h, Cd=1, (N) Operating Wind Speed Survival Wind Speed Lightning Protection Weatherproofing Radome Material Radome Color Packing Size Hxwxd (Mm) Shipping Weight Including Bracket Kit Mounting

7/16 DIN female Bottom 2650 x 280 x 125mm (8' 8"x 11"x 5") 24kg (53lbs) 27,5kg (60.5 lbs with brackets)

55m/s (123 mph) 70m/s (156 mph) DC-grounded According to T1102 GRP RAL 7035 on all visible plastic parts 2790 x 355 x 200mm (9' 2"x1' 2"x 8")

29kg (64lbs)
Pre-mounted standard brackets

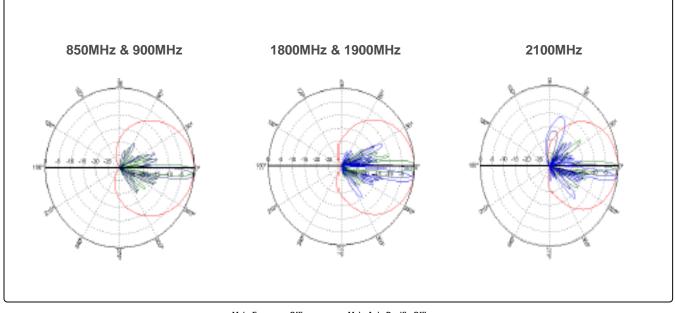
ANTENNA Systems

BASE STATION SYSTEMS

COVERAGE SYSTEMS



Electrical Specifications Frequency Band, MHz 1990-2170 824-960 1710-1880;1850-1990 Gain ± 0.5dBi 17.5 17.4 17.2 dual linear ±45° dual linear ±45° Polarization dual linear ±45° Nominal impedance (Ohms) VSWR, 824-960 MHz 1.5:1 VSWR, 1710-1880 MHz 1.5:1 VSWR, 1900-2025MHz 1.5:1 VSWR, 2110-2170MHz 1.5:1 Isolation between inputs (dB), 824-960 MHz 30 Isolation between inputs (dB), 1710-1880 MHz 30 Isolation between inputs (dB), 1900-2025 MHz >30 Isolation between inputs (dB), 2110-2170 MHz >30 Inter band isolation, all bands (dB) 38 Horizontal -3dB beam width 65° 65° Tracking, Horizontal plane, 824-896 MHz, ±60° <2.0dB Tracking, Horizontal plane, 880-960 MHz, ±60° <2.0dB Tracking, Horizontal plane, 1710-1880 MHz, ±60° <1.5dB Tracking, Horizontal plane, 1900-2025 MHz, ±60° <1.5dB Tracking, Horizontal plane, 2110-2170 MHz, ±60° <1.5dB Electrical down tilt range (adjustable) 0° to 8° 2° to 8° 0° to 8° Vertical Beam width -3dB MHz >17 @ 0 ° MET Side lobe suppression, Vertical 1st upper (dB) >17 @ 2 ° MET >17 @ 0° MET Side lobe suppression, Vertical Upper (dB) >10 Vertical beam squint 0.5 0.5 0.5 Front-to-back Ratio (dB) >25 >30 >30 Front-to-back Ratio, Total Power (dB) >20 >25 >25 Cross-polar discrimination (XPD) ±60° (dB) >11 >11 >10 IM3, 2Tx@43dBm (dBm) (dBc) -153 IM3, 2Tx@43dBm (dBm) (dBc) -153 IM7, 2Tx@43dBm (dBm) (dBc) -160 Power Handling, Average per input (W) 300 250 250 Power Handling, Average total (W) 500 600 500



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VERAGE AND CAPACITY TECHNOLOGY LEADERSHIP GLOBAL PARTNER

All specifications are subject to change without notice. Contact your Powerwave representative for complete performance data.

INTEGRATED SOLUTIONS

QUALITY AND RELIABILITY