Triple Band Antenna

65° 2.0 m MET Antenna

824-960/2x1710-2170 MHz

Part Number: 7782.00

Horizontal Beamwidth: 65° Gain: 16.5 / 16.8 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 (M/s)
Survival Wind Speed (M/s)
Lightning Protection
Weatherproofing
Radome Material
Radome Color

Radome Material Radome Color Packing Size Hxwxd (Mm) Shipping Weight Including Bracket Kit Mounting 7/16 DIN female Bottom 2033 x 280 x 125mm (7' 1"x 11"x 5") 18kg (40lbs) 21.5kg (47 lbs with brackets)

628 55 (123 mph) 70 (156 mph) DC-grounded According to T1102 GRP

RAL 7035 on all visible plastic parts 2175x355x255 23.5kg (51 lbs)

Pre-mounted standard brackets

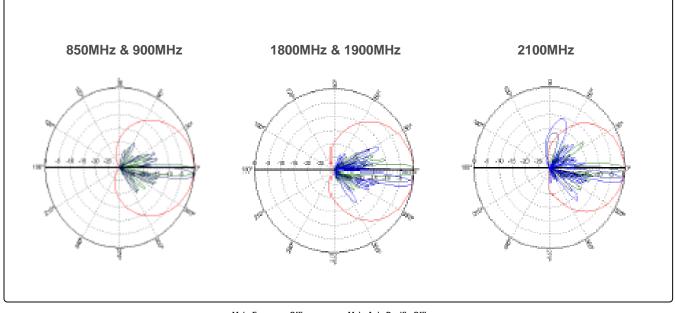
ANTENNA Systems

BASE STATION SYSTEMS

COVERAGE Systems



Electrical Specifications Frequency Band, MHz 1990-2025, 2110-2170 824-960 1710-1880;1850-1990 Gain ± 0.5dBi 16.5 16.5 Polarization dual linear ±45° dual linear ±45° dual linear ±45° Nominal impedance (Ohm) 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) > 34 Horizontal -3dB beam width 64° 67° 65° Tracking, Horizontal plane, 824-896 MHz, ±60° < 1.0dB Tracking, Horizontal plane, 880-960 MHz, ±60° < 1.0dB 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° < 2.0dB Electrical down tilt range (adjustable) 2° to 9° 0° to10° 0° to 10° Vertical Beam width -3dB MHz 9° ±1° Side lobe suppression, Vertical 1st upper (dB) >15 ,13 @ 0,10° MET > 18, 15 @ 0, 10° MET >17, 13 @ 2,9° MET Side lobe suppression, Vertical Upper (dB) > 10 > 11 > 12 Vertical beam squint < 0.8° < 0.8 < 0.8° Front-to-back Ratio (dB) > 30 > 30 > 30 Front-to-back Ratio, Total Power (dB) > 27 > 27 > 27 Cross-polar discrimination (XPD) ±60° (dB) > 10 > 11 > 10 IM3, 2Tx@43dBm (dBc) < -153 IM3, 2Tx@43dBm (dBc) < -153 IM7, 2Tx@43dBm (dBc) < -160 Power Handling, Average per input (W) 300 250 250 Power Handling, Average total (W) 500 500 600



Corporate Headquarters Powerwave Technologies, Inc. 1801 East St. Andrew Place Santa Ana, CA 92705 USA

Tel: 714-466-1000 Fax: 714-466-5800 www.powerwave.com Main European Office Antennvägen 6 SE-187 80 Täby Sweden Tel: +46 8 540 822 00

Fax: +46 8 540 823 40

Main Asia Pacific Office 23 F Tai Yau Building 181 Johnston Road Wanchai, Hong Kong Tel: +852 2512 6123 Fax: +852 2575 4860



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QUALITY AND RELIABILITY