MiMo Directional Antenna + GPS/GNSS



WMM8GG-7-38



- Provides 2x2 MiMo antenna system for 4G/5G
- Two wideband directional elements with high gain
- · Durable housing for external or internal use
- · Suitable for mast, wall and desk mounting
- Integral GPS/GNSS antenna

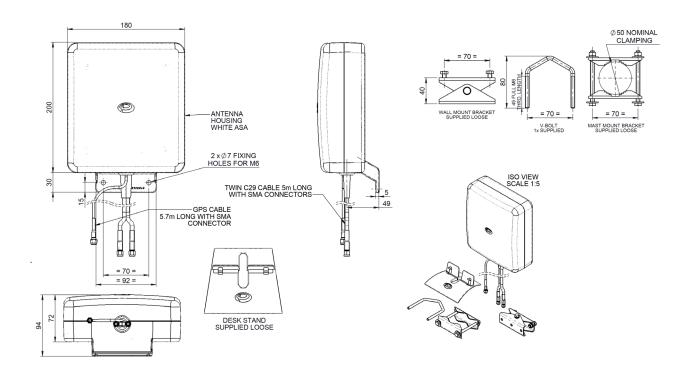
The WMM8GG antenna provides an innovative and future proof solution for 3G/4G and 3.4-3.8GHz 5G networks. Incorporating two separately fed, ultra wideband elements in a single housing, it provides a client side 2x2 MiMo antenna system for the networks of today and tomorrow.

With between 6-9dBi gain in the range 698-3800MHz, the WMM8GG gives great performance, whilst maintaining a wide beam pattern which is ideal for metro and urban areas. A GNSS antenna with 26dB gain LNA is integrated and is compatible with GPS/GLONASS/Galileo and BeiDou systems.

The rugged, weatherproof housing is designed for wall or mast mounting and hardware is provided. A desk stand is also included to enable the antenna to be positioned on a window sill if preferred. The antenna is supplied with integral "twinned" CS29 coaxial cable. WMM8GG-7-38-5SP version has 5m length, fitted with sma plug connectors for a simple 'plug & play' installation.

WMM8GG-7-38-03NJ version has 30cm length, fitted with N socket connectors, which enables use of lower loss cable types for longer runs. The WMM8GG is a cost effective value added product for network operators and service providers ensuring a stable network connection with improved data rates for subscribers, improving satisfaction and retention.

Technical Drawing WMM8GG-7-38-5SP Shown



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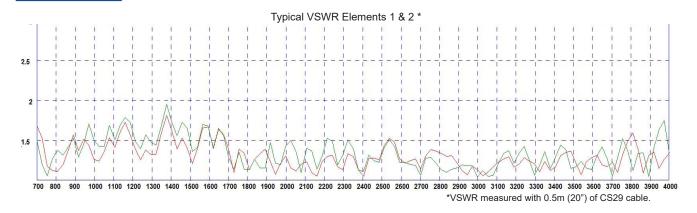
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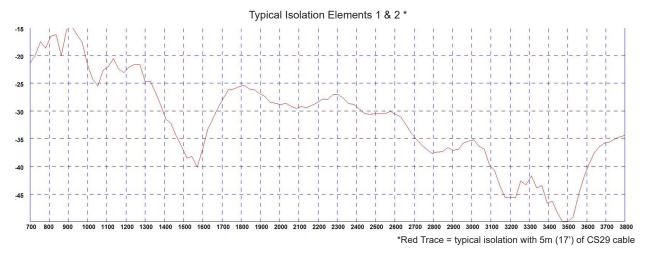
Product Data

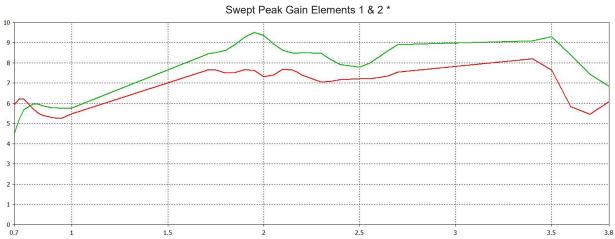
| Part No. | | | |
|---|---|------------------------------------|------------------------------------|
| | | WMM8GG-7-38-5SP | WMM8GG-7-38-03NJ |
| Electrical Data | | | |
| Frequency Range (MHz) | Antenna 1 | 698-960/1710-2700/3400-3800 | |
| | Antenna 2 | 698-960/1710-270 | 698-960/1710-2700/3400-3800 |
| Operational bands | | 2G / 3G / 4G / 5G | |
| Radiation pattern | | Directional | |
| Nominal Polarisation | | +/- 45deg Vertical | |
| Peak Gain (excl cable loss)+ | 698-960 MHz | 6dBi | |
| | 1710-2170 MHz | 9dBi | |
| | 2396-2700 MHz | 9dBi | |
| | 3400-3800MHz | 9dBi | |
| Efficiency - excluding cable loss (all bands) | | > 60% | |
| Correlation co-efficient (all bands) | | < 0.1 | |
| Max input power (W) | | 20 Watts | |
| Nominal Impedance | | 50Ω | |
| GPS Data | | | |
| Frequency Range (MHz) | | 1562-1612 | |
| LNA Gain (dB) | | 26 | |
| Polarisation | | RHCP | |
| Operating Voltage | | 3-5VDC | |
| Current | | <20ma | |
| Mechanical Data | | | |
| Dimensions (mm) | Height | 230 (9") | |
| | Width | 180 (7.1") | |
| | Depth | 94 (3.7") | |
| Operating temp (°C) | | -45° / +80°C (-49° / 176°F) | |
| Material | | U.V. stable, impact resistant ASA | |
| Colour | | RAL9010 (Pure White) | |
| Weight (g) | | 955 | |
| Ingress Protection | ess Protection IP65 | | |
| Mounting Data | | | |
| Fixing | xing Wall mount / mast mount / desk mount | | unt / desk mount |
| Mounting bracket material | | Stainless steel / Aluminium | |
| Pole diameter (mm) | | 20-50 / (0.78 - 1.96") | |
| Cable Data | | | |
| Туре | | 2 x CS29 (LTE) 1x RG174 (GNSS) | 2 x CS29 (LTE) 1x RG174 (GNSS) |
| Diameter (mm) | | 5 (0.2") - CS29 3 (0.1") - RG174 | 5 (0.2") - CS29 3 (0.1") - RG174 |
| Length (m) | | 5 (16') | 0.3 (12") |
| Termination | | 3 × SMA (m) | 3 × N(f) |

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Electrical Data - Cell



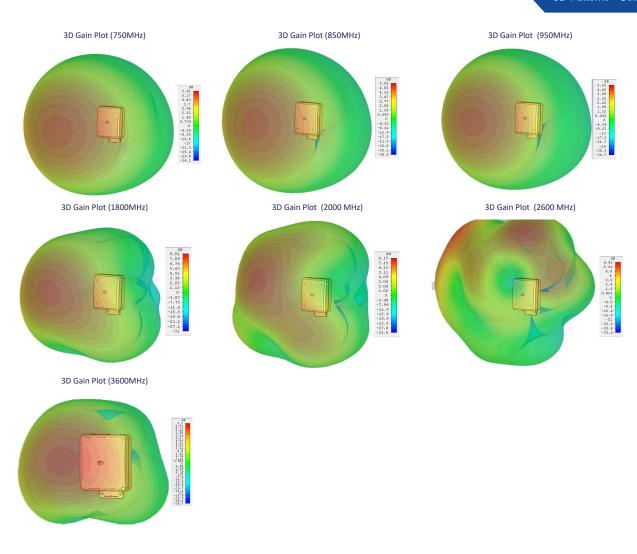




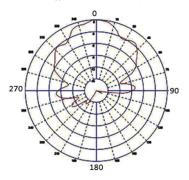
*Elements 1 &2 swept peak gain without cable simulated in CST Microwave Studio

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3D Patterns - Cell







*WMM8GG-7-38 3D LTE Patterns show realised gain both elements fed modelled in CST Microwave Studio without additional cable. Typical 2D GPS E-Plane pattern measured in free space