

## Product: MIMO-PLUS

Product Order Code:  
BM-02872

# Rugged MIMO Wall & Pole Mounted Antenna

5G NR, LTE-4G, CELLULAR (2G, 3G) / WIFI

- High efficiency, robust wide band antenna
- Approved for global network use
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via [enquiry@bloomice.com](mailto:enquiry@bloomice.com)



## Technical Data

|                        |                                               |
|------------------------|-----------------------------------------------|
| Dimensions             | 483mm (H) x 77mm (D) x 75mm (W)               |
| Weight                 | 1.264 kg                                      |
| Construction Materials | UV Resistant ABS / Galvinised Steel Bracket   |
| Mounting Arrangement   | Wall Fixed or Pole Mounted (35-55mm Diameter) |
| Rated Wind Velocity    | 210km Per Hour                                |
| Temperature Range      | -40 to +85° C                                 |
| Protection Class       | IP66                                          |

## Cellular 5G NR / LTE / 2G / 3G / WLAN / WIFI / BT / ZIGBEE / ISM

|                               |                                                                                                                           |                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Frequency Standards           | 2G / 3G / 4G-LTE / 5G NR / CBRS / CAT-x / CAT-Mx / CAT-NBx / DCS / FirstNet / GSM 900 & 1800 / LPWA / NB-IOT / PCS / UMTS |                           |
| Frequency Range               | 5G NR + LTE 700 + GSM 900:                                                                                                | 617 - 960 MHz             |
|                               | 5G NR + LTE + 3G + GSM 1800:                                                                                              | 1427 - 2690 MHz           |
|                               | 5G NR + LTE + 3G:                                                                                                         | 3300 - 5000 MHz           |
|                               | 5G NR + LTE (High):                                                                                                       | 5150 - 5925 MHz           |
|                               | BLUETOOTH / IEEE Standard 802.11b:                                                                                        | 2400 - 2500 MHz           |
| Impedance                     | 50 Ohm                                                                                                                    |                           |
| Polarisation                  | Vertical                                                                                                                  |                           |
| Peak Gain (Elements 1 & 2)    | 5G NR + LTE 700 + GSM 900:                                                                                                | @ 617 - 960 MHz; 3.2dBi   |
|                               | 5G NR + LTE + 3G + GSM 1800:                                                                                              | @ 1427 - 2690 MHz; 7.2dBi |
|                               | 5G NR + LTE + 3G:                                                                                                         | @ 3300 - 5000 MHz; 5.1dBi |
|                               | 5G NR + LTE (High):                                                                                                       | @ 5150 - 5925 MHz; 5.1dBi |
|                               | BLUETOOTH / IEEE Standard 802.11b:                                                                                        | @ 2400 - 2500 MHz; 6.4dBi |
| Radiation Pattern             | Omni-Directional                                                                                                          |                           |
| VSWR (Elements 1 & 2)         | 5G NR + LTE 700 + GSM 900:                                                                                                | @ 617 - 960 MHz; <2.5:1   |
|                               | 5G NR + LTE + 3G + GSM 1800:                                                                                              | @ 1427 - 2690 MHz; <1.6:1 |
|                               | 5G NR + LTE + 3G:                                                                                                         | @ 3300 - 5000 MHz; <1.7:1 |
|                               | 5G NR + LTE (High):                                                                                                       | @ 5150 - 5925 MHz; <2:1   |
|                               | BLUETOOTH / IEEE Standard 802.11b:                                                                                        | @ 2400 - 2500 MHz; <2:1   |
| Maximum Input Power @ 30°C    | 50 Watts                                                                                                                  |                           |
| Radiator Type                 | Folded Dipole (x2)                                                                                                        |                           |
| Cable Type / Length           | RG58 (White PVC Jacket) / 2 x 5000mm                                                                                      |                           |
| Connector                     | 2 x SMA MALE                                                                                                              |                           |
| Test & Measurement Conditions | Free Space (Pole Mounted)                                                                                                 |                           |

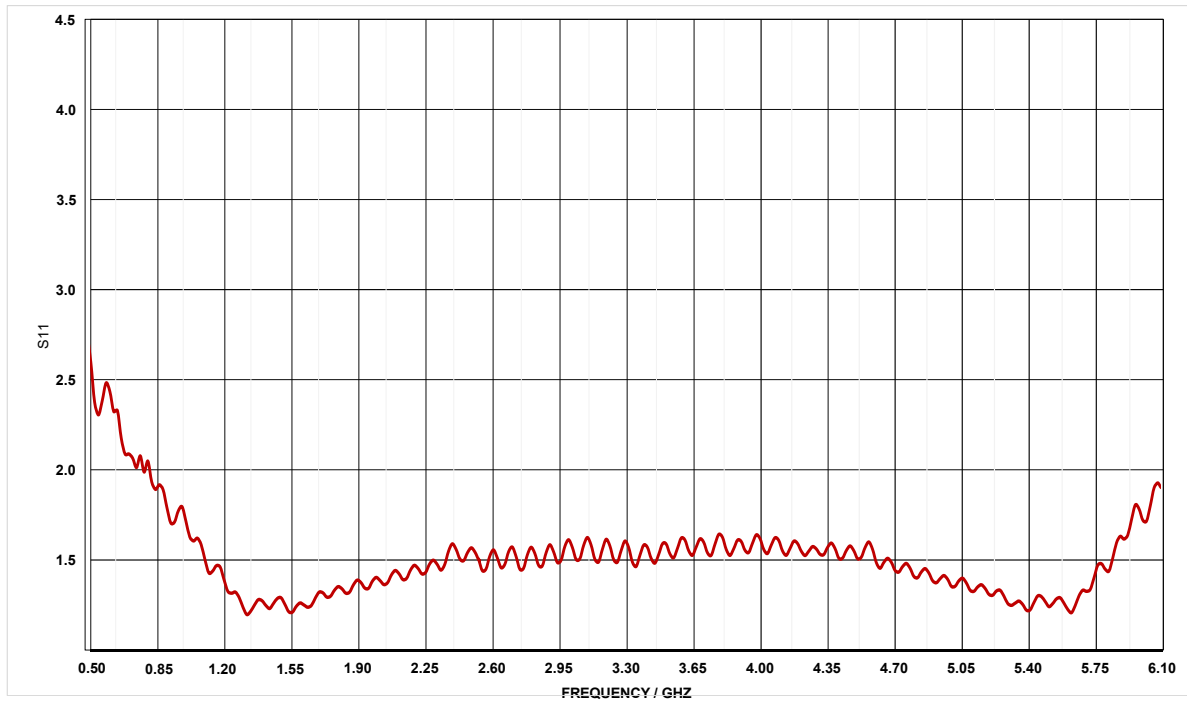
dBi: Referenced to an isotropic radiator

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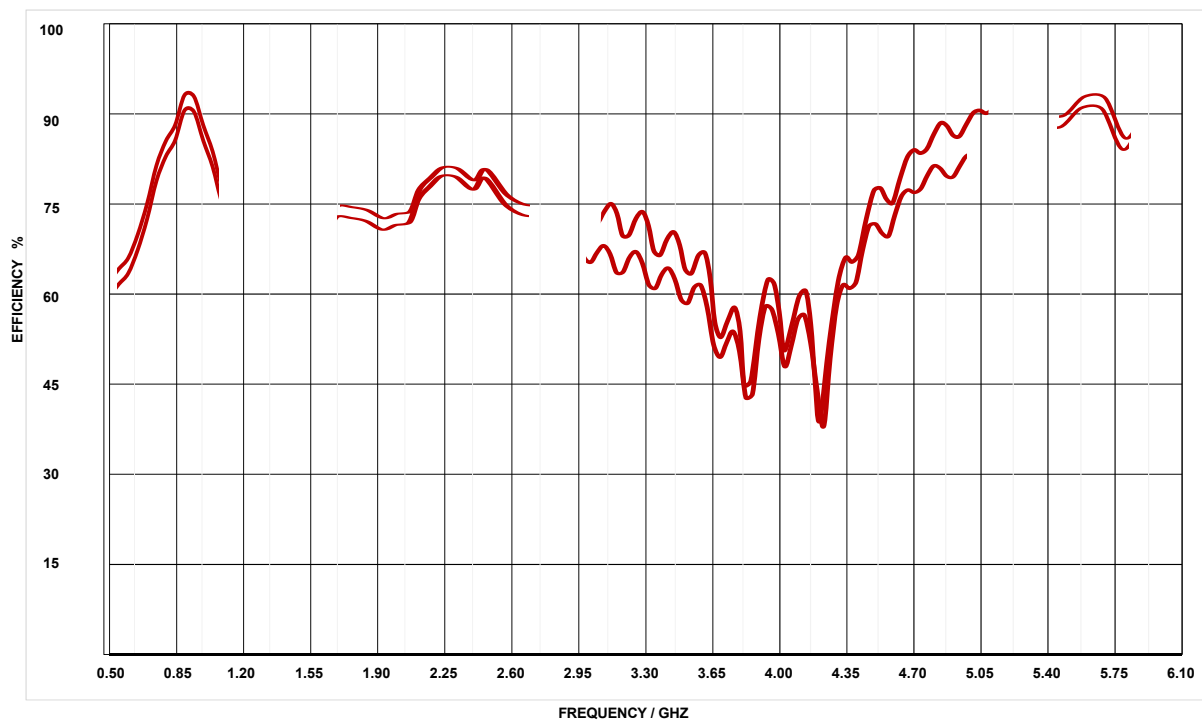
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## VSWR Data



## Radiated Efficiency - LTE Elements 1 & 2



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### CAD Data

