



## Optimised and Tuned EU 868 Band LoRaWAN Flat Panel Sector Antenna - 8.5 dBi

McGill Microwave Systems has launched its newest addition to our market leading Ultra High Performance Optimised and Tuned Lora Frequency Band Antenna series.

This unique Antenna is both directional and has the additional significant advantage that it can be tilted or moved in the Azimuth direction - unlike all other Omni Directional Antennas.

Omni directional Antennas radiate 360 degrees - this unique flat panel Antenna design is radically different in that it takes all of the Radiated energy which usually would be transmitted behind and to the side of the Antenna and focuses all of this RF energy into the forward direction only - in one very wide and high beam - typically 68 degrees in Azimuth and Elevation.

### Typical applications

- In applications where it's desired to steer/direct the Radiated beam into a large or difficult to reach target area. *This is achieved by utilising the unique feature of this Antenna design of being able to tilt or move in the Antenna utilising its tiltable and rotatable Antenna Mount (supplied) to focus the large beam exactly in the direction required.*
- Ideal for mounting on high up Balconies or Tower Blocks where Antennas are blocked from radiating in the rearwards direction.
- Installations located on the coast where transmission to the antenna rear is not required/desired.
- Installations located immediately in front of large hills or building where rear radiation is blocked and therefore not required.
- The flat panel sector Antenna is small, lightweight, unobtrusive and white in colour.

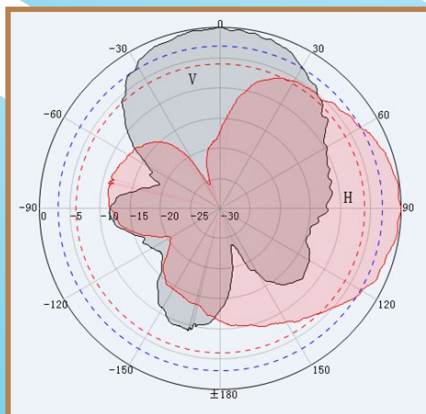
**Available in both EU 868 and US 915 Tuned and Optimised versions with ultra low VSWR.**





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| ELECTRICAL SPECIFICATIONS |                    |
|---------------------------|--------------------|
| Frequency Range (MHz)     | 865-870            |
| Gain (dBi)                | 8.5dBi             |
| HPBW <sub>H</sub> (Deg)   | 68±5°              |
| HPBW <sub>V</sub> (Deg.)  | 68±5°              |
| Tilt (Deg.)               | 0                  |
| Polarization              | V                  |
| VSWR                      | ≤1.5               |
| Impedance (Ω)             | 50                 |
| Connection Type           | N-Female connector |
| Max Input Power (W)       | 50                 |
| Lightning Protection      | Dc Ground          |
| MECHANICAL SPECIFICATIONS |                    |
| Dimensions (mm)           | Φ234*194*35        |
| Color                     | White              |
| Radome Material           | ABS                |
| Weight (Kg)               | 1.2                |
| Temperature Range (°c)    | -40~+55°c          |
| Rated Wind Speed (km/h)   | 126                |
| Mounting Type             | /                  |



Radiation Pattern 868 MHz



### Contact us for more details

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