OPTION

CloudGate

OUTDOOR LORAWAN ANTENNA 8 DBI





The LoRaWAN Antenna

- Suitable for outdoor deployment and pole mounting
- Antenna gain 8 dBi
- Supports LoRaWAN frequency range from 860 to 930 MHz
- Length 110 cm (43 inches) N-type male connector

OPTION

Range

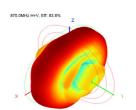
For outdoor LoRaWAN deployments, it is recommended to put LoRaWAN gateways on a high location and use high-gain antennas to extend the range of the gateway. The gain is stretching the antenna profile in the horizontal direction.

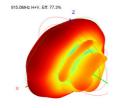
Frequency

This high-quality outdoor antenna provided by Option is by default tuned to a frequency range that covers the most common LoRaWAN frequencies in the world. On request it is possible to order this antenna as well tuned for 868MHz or 915MHz where a gain up to 9dBi can be achieved.

High quality outdoor antenna

Due to the significant length it is not recommended to mount the antenna directly on the outdoor box but use the U-shape bracket to mount the antenna on a pole near the box. An optional N-type male to N-type female antenna cable can be used from the connector on the box to the antenna.



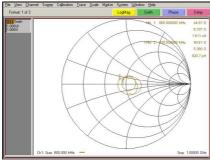


TECHNICAL SPECIFICATIONS		
Frequency range	• 860 - 930 MHz	
Bandwidth	• 70 Mhz	
Input Impedance	• 50 Ohm	
VSWR	• ≤1.5	
Gain	• 8+/-0.3 dBi	
Polarization type	Vertical	
Radiation direction	All directions	
Half-power beamwidth	Horizontal: 360°, Elevation: +/- 8°	
Max input power	• 100 W	
Antenna size	• Φ 23 x 1100mm (0.9 inches x 43.3 inches)	
Antenna weight	• 520g (18.3 ounces)	
Antenna cover color	• White	
Antenna cover material	Glass fibre	
Antenna connector	N male	
Operating temp	• -20° to +85°C	
Storage temp	• -40° to +85°C	
Mounting	Pole (Φ 25 to 50mm) with U-bracket	
Pole dimension	• 25 to 50mm (1 to 2 inches)	
Lighting protection	DC grounding	
Wind resistance	• 60m/s	

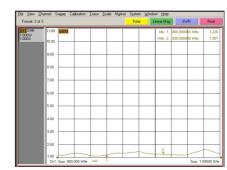
Product	PN
Outdoor LoRaWAN antenna 8 dBi	1010644







Smith chart



VSWR chart