

Panel 8 868 MHz LoRaWAN Directional

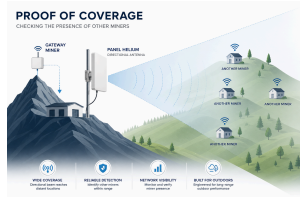
Product code: IP-G08-F8688-SL

8 dBi Directional Antenna 868 MHz (EU868)

Directional antenna designed for LoRaWAN, Helium and IoT deployments requiring controlled coverage and improved SNR

This 8 dBi directional antenna is designed for use in LoRaWAN, Helium and other IoT systems operating in the European 868 MHz band.

By focusing RF energy in a defined direction, the antenna reduces noise pickup and increases **signal-to-noise ratio (SNR)**, resulting in improved effective range and more stable communication.



electrical

Frequency band(s)	a. 860-880
Frequency (min)	860MHz
Frequency (max)	880MHz
Gain	a. 8dBi
VSWR (max)	1.50:1
Polarization	Horizontal and Vertical
Half Power Beam Width (-3dB) - horizontal	a. 70°
Half Power Beam Width (-3dB) - vertical	a. 60°
FBR (Front/Back Ratio)	>25dB
XPD (Cross Polarization Discrimination)	>3dB
Max Composite Power	50W
DC Ground	yes
Impedance	50Ω

mechanical

Connector	N female
Mounting Diameter	ø 38...51mm
Dimensions (excl. mount)	223x223x28
Weight (incl. mount)	0.65kg

environmental

Environment	Outdoor
Windload	160km/h
IP Rating	IP64
Temperature	-40°C ... 80°C

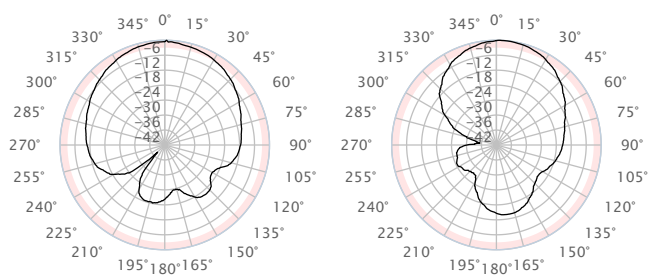
compliance

Installation tips:

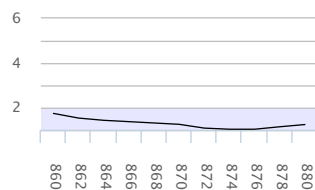
Fine adjustment of the antenna ensures the correct propagation of radio signals. Proper installation of the mast, antenna and cable provide a stable and proper operation of the antenna installation.

- Level mast or boom using a bubble leveler.
- Assemble the antenna mount as on drawing.
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- Assemble the antenna mount as on drawing.
- Mount antenna on the mast.
- Level the mast or boom, check antenna vertical position.
- Vent holes should be located at the bottom of the antenna.
- Screw the antenna to the mast, leaving slack in the adjustment of direction and inclination.
- Determine the direction and inclination.
- Finally tighten the mounting screws.
- Connect cable and insulate antenna connector.
- Fasten cable to the mast or boom.
- It is worth to note achieved link parameters

INTERLINE, Klonowa 29, 49-353 Zielce, POLAND



VSWR: panel 868 new Nf vswr



GAIN: Trc1_S21 [dB]

