



## PANEL 14/868MHZ

Designed for connections over very long distances! IoT M2M ( Machine to Machine ) Lora, Sigfox, XBee, RFID. Z-WAVE PANEL 868 MHz is carefully designed and construction directional antenna working in the unlicensed 867-870MHz band. Typical applications are monitoring and digital transmission of small amounts of data (up to 40 kbp

- Energy (wind, solar panels),
- Intelligence Home
- Internet of Things
- Irrigation,
- Telemetry,
- RF sensor networks
- tracking people and objects
- geolocation,
- safety of workers.

### electrical

Frequency (min)	790MHz
Frequency (max)	880MHz
Gain	a. 14dBi
VSWR (max)	2.00:1
Polarization	Horizontal or Vertical
Half Power Beam Width (-3dB) - horizontal	a. 30°
Half Power Beam Width (-3dB) - vertical	a. 30°
FBR (Front/Back Ratio)	>20dB
XPD (Cross Polarization Discrimination)	>21dB
Max Composite Power	300W
DC Ground	yes
Impedance	50Ω

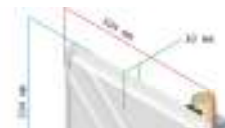
### mechanical

Connector	N female
Mounting Diameter	ø 38...51mm
Dimensions (excl. mount)	504x504x30
Weight (incl. mount)	2.80kg

### enviromental

Enviroment	Outdoor
Windload	130km/h
IP Rating	IP65
Temperature	-40°C ... 80°C

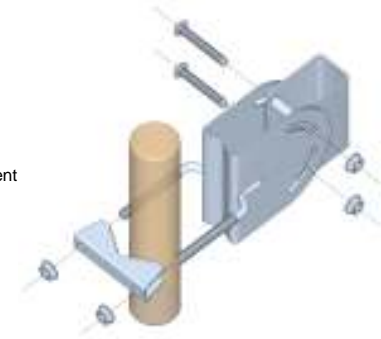
Product code: IP-G14-F7988-HV



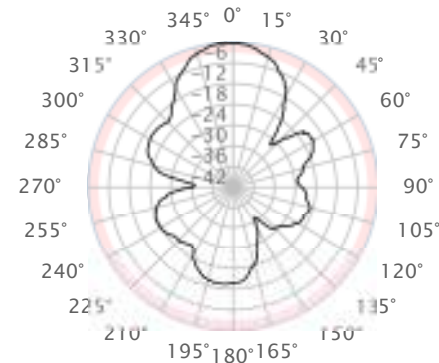
### Instalation tips:

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.

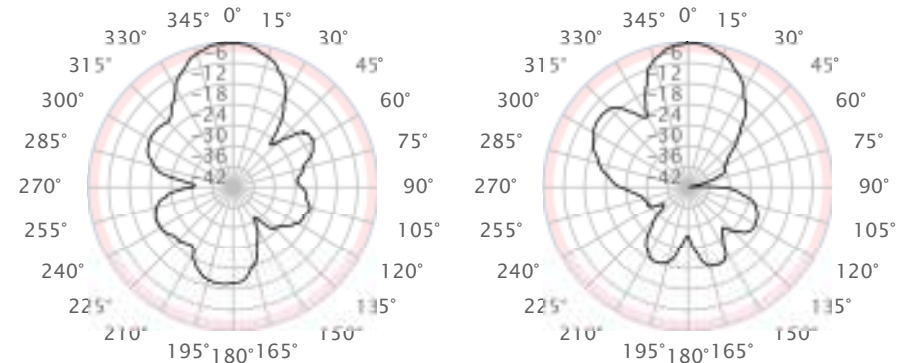
- Level mast or boom using a bubble leveler.
- Assemble the antenna mount as on drawing.
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- Assemble the antenna mount as on drawing.
- Mount antenna on the mast.
- Level the mast or boom, check antenna vertical position.
- Vent holes should be located 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



RPE - HORIZONTAL



RPE - VERTICAL



VSWR: IP-G16-F8688-HV Ver.3  
500new\_final\_vswr

