



## HORIZON 4X4 MIMO DUAL-BAND MINI Product code: IH-G0405-F2460-V-M

The antenna is specially designed to work in such conditions. This antenna is designed for installation in WAVE2 and the MU-MIMO multiplexing time-space technologies. The antenna operates in two frequency bands 2.4 and 5 GHz, offering excellent utilization of the radio spectrum. Specially designed arrays of radiators with low self capacitance guarantee correct operation with a high degree of encoding - 256 QAM, which is used in such systems. Low capacitance does not introduce blurring of digital signals and help to avoid appearance of parasitic currents and reflections.

### electrical

Frequency band(s)	a. 2400 - 2500	b. 4800 - 6000
Frequency (min)	2 400MHz	
Frequency (max)	6 000MHz	
Gain	a. 4dBi	b. 5dBi
VSWR (max)	1.70:1	
Polarization	Vertical	
Half Power Beam Width (-3dB) - horizontal	a. 360°	
Half Power Beam Width (-3dB) - vertical	a. 35°	
XPD (Cross Polarization Discrimination)	>18dB	
Port to Port Isolation:	>20dB	
Max Composite Power	2W	
DC Ground	no	
Impedance	50Ω	

### mechanical

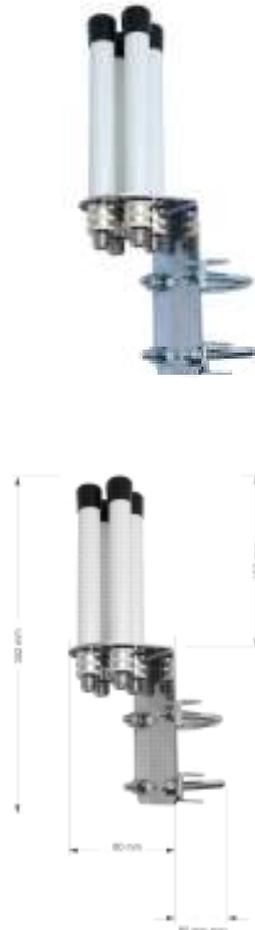
Connector	N female
Mounting Diameter	∅ 38...51mm
Dimensions (excl. mount)	300x80
Weight (incl. mount)	1.10kg

### environmental

Environment	Outdoor
Windload	13N (@170km/h)
IP Rating	IP64
Temperature	-40°C ... 80°C

### compliance

ETSI EN 302 326-3 (CE)	compliant
2002/95/EC (RoHS)	compliant
2002/96/EC (WEEE)	compliant



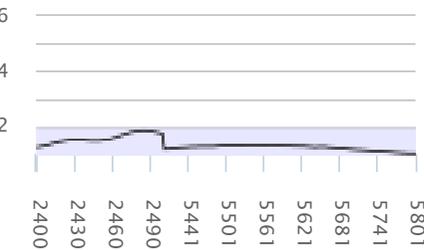
### Installation tips:

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.

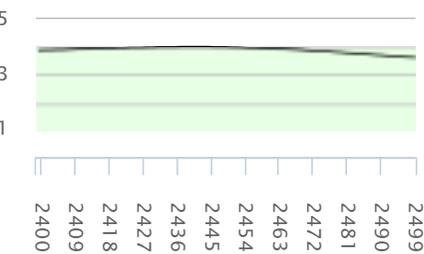
- Level mast or boom using a bubble leveler.
- Assemble the antenna mount as on drawing.
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- Assemble the antenna mount as on drawing.
- Mount antenna on the mast.
- Level the mast or boom, check antenna vertical position.
- Vent holes should be located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



VSWR: IH-G0304-F2456-V



GAIN: Trc1\_S21 [dB]



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