

# Ultra-Wideband Directional Antenna

617-6000 MHz, MIMO, Low-PIM

ventev®

Connect, Protect, and Enable™

Ventev's low-PIM (-153 dBc) high gain directional antenna supports 617-6000 MHz (5G FR1) frequency range and is ideal for indoor and outdoor DAS, rural, and industrial applications in various use cases. Available in SISO and 2x2 MIMO options in N-type and 4.3-10 connectors, these antennas are suitable for in building and outdoor networks operating in LTE, GSM, CDMA, PCS, 3G, 4G, and 5G. The rugged design of the antenna offers protection from sun, wind, rain, snow, and dust. The antenna comes with articulating bracket (Azimuth adjustment:  $\pm 45^\circ$  and down-tilt adjustment: 0-20°) and can be mounted on a pole or wall.



## Electrical Specifications

Frequency Bands, MHz	617-698	698-960	1710-2700	3300-4200	4900-6000
Polarization	$\pm 45^\circ$				
Gain, dBi	5.5	6.0	7.0	8.0	8.0
Azimuth (HBW)	80°	85°	70°	75°	50°
Elevation (VBW)	70°	75°	60°	80°	35°
VSWR   Return Loss, dB	1.8   $\geq 11$	1.8   $\geq 11$	1.8   $\geq 11$	1.8   $\geq 11$	2.0   $\geq 10$
Front-to-Back Ratio, dB	15	15	20	25	18
PIM, IM3, 2x20 W (43 dBm), dBc	-153	-153	-153		
Max Input Power per Port, Watts	50				
Impedance, Ohm	50				
Lightning Protection	DC Ground				

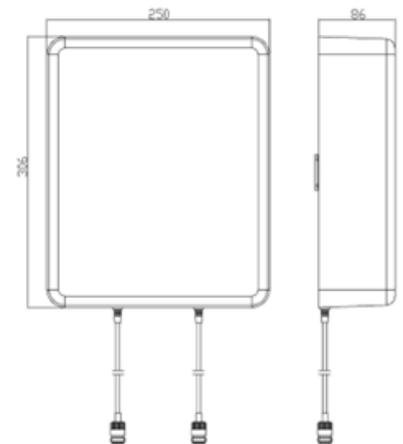
Connector	SKU	MFG Part #
N Female	603041	VN-XLHM6-XDNF
4.3-10 Female	603045	VN-XLHM6-XD4F

## Features & Benefits

- High gain directional antenna supporting 617-6000 MHz
- Suitable for indoor/outdoor networks operating in LTE, GSM, CDMA, PCS, 3G, 4G, and 5G
- Ideal for in-building and outdoor DAS, rural, industrial, and donor antenna deployments
- Rugged construction provides protection from sun, wind, rain, snow, and dust

## Mechanical Specifications

Dimensions (H x W x D)	306 x 250 x 86 mm. (12 x 9.8 x 3.4 in.)
Input Connector	2x N Female or 2x 4.3-10 Female; from bottom of antenna
Pigtail	12 in. plenum rated, RG141 with FEP jacket
Mounting	Wall or pole mounted; articulating bracket included (Azimuth adjustment: $\pm 45^\circ$ and down-tilt adjustment: 0-20°)
Radome	White ABS, UL-94 compliant
Operating Temperature	-40° to +60°C (-40° to +140°F)
Relative Humidity	Up to 95%
Weight	1.5 kg. (3.3 lbs.)



Every Ventev antenna is RoHS compliant and covered by company's 2-year warranty program.

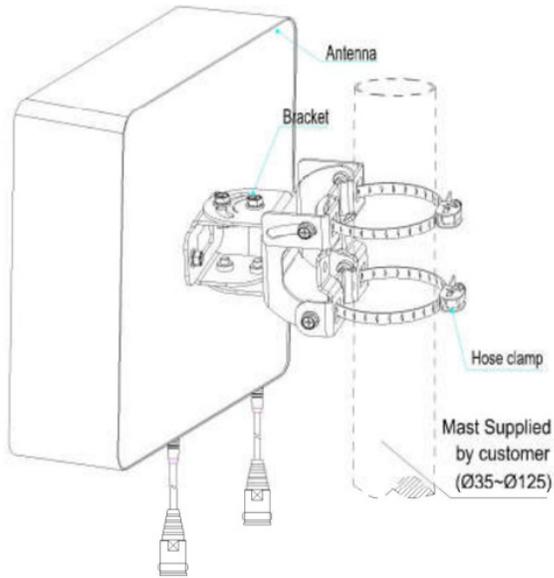
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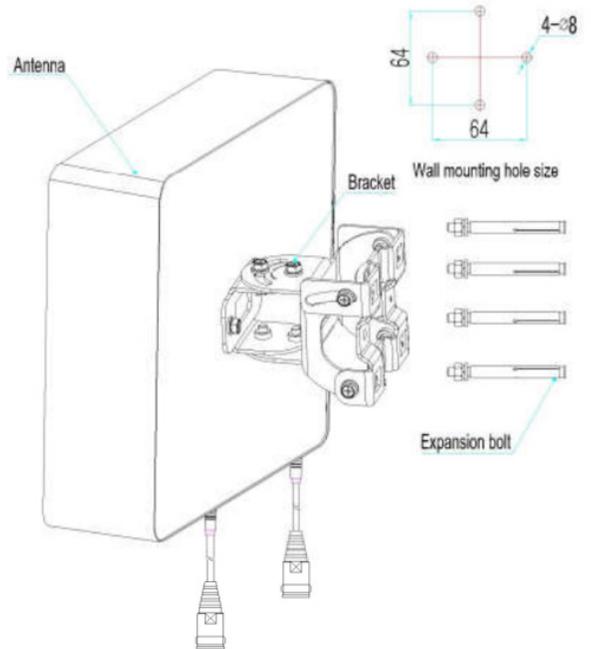
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## Mast Installation



## Wall Installation



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