

Ultra-Wideband Surface Mount Omni Antenna

617-7125 MHz, 1x Port

ventev®

Connect, Protect, and Enable™

Ventev's low-profile surface mount omnidirectional antenna is ultra-wideband covering frequency range from 617 to 7125 MHz. The antenna supports 5G NR and Wi-Fi 6E devices makes it ideal for deployments in Industrial IoT, vehicle rooftop, and fixed network applications. It features a compact form-factor, and a rugged design makes it suitable for any indoor and outdoor deployments including harsh environments. The antenna offers quick and simple single-hole mounting and comes with an extended lead eliminating the need for running jumpers.



Electrical Specifications

Frequency Bands, MHz	617-698	698-960	1710-2700	3300-7125
Polarization	Vertical			
Gain, dBi ¹	3	4	5	7
Horizontal Beam Width	Omni (360°)			
Vertical Beam Width	75°	60°	50°	30°
VSWR	≤ 2.5	≤ 2.5	≤ 2.0	≤ 2.0
Max Input Power per Port	20			
Impedance, Ohm	50			

Mechanical Specifications

Dimensions (D x L)	Ø32 (Ø1.3) x 72 mm. (2.8 in.)
Input Connector	1x SMA Male
Pigtail	10 ft. with SMA Male connector, RG174
Radome	Black
Mounting	Surface mount (through 0.7 in. mounting hole, up to ½ in. of panel thickness)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Relative Humidity	Up to 100%
Weight	0.4 lbs.

1. Measured on Ø19 in. ground plane

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

Connector	SKU	MFG Part #
SMA Male	601167	VM-UE1OP-SM

Features & Benefits

- Ultra-Wideband (617-7125 MHz) omnidirectional antenna with extended lead
- Supports 5G FR1 and Wi-Fi 6E, makes it ideal for deployments in industrial IoT, vehicle rooftop and fixed network applications
- Rugged design suitable for any indoor and outdoor deployments
- Surface mounted

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Mounting Instructions

Note: These instructions assume the antenna is being mounted to a flat metal surface.

1. Drill a 11/16 in. hole in the mounting surface.
2. Remove and retain the mounting nut.
3. Lower the connectors and cables through the hole.
4. Set the antenna flat on the mounting surface.
5. Install and tighten the mounting nut on the underside of the mounting surface.

Optional: Place a small bead of silicone sealant around the edge of the antenna where it sits atop the mounting surface.

Accessories Sold Separately



SKU 274461

Universal Wall or Pole/
Mast Mount Bracket



SKU 600876

Magnetic Mount Heavy
Duty, 2-Leg



SKU 600881

Magnetic Mount Heavy
Duty, 3-Leg