

Multiband 10-in-1 VenDome™ Omnidirectional Antenna

10 Port, 4x 617-6000 MHz, 1x GNSS/GPS, 5x Dual Band Wi-Fi, with FAKRA Female Leads

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Connect, Protect, and Enable™

Ventev's Multiband 9-in-1 VenDome™ Omnidirectional Antenna provides an ultra-wideband (617-6000 MHz) frequency to support MIMO/diversity at the 4G/5G areas as well as Wi-Fi Elements. This antenna was designed with a UV-stabilized radome, perfect for either indoor or outdoor applications. Cables 1 to 4 are compatible with 4G/5G Elements while cables 5 to 9 provide Wi-Fi elements. With FAKRA connectors, this antenna is compatible with the Sierra XR80 gateway radio.

Available Models

Description	MFG Part #	SKU
With 10 FAKRA Female Leads (4 Cellular Cables, 5 Wi-Fi Cables, + 1 GNSS/GPS)	VM-UWG451OD-FKR	216395

4G/5G & Wi-Fi Electrical Specifications

Cable Number	Cables 1-4: 4G/5G Elements				Cables 5-9: Wi-Fi Elements	
	Operating Frequency Range	617-960 MHz	1690-2700 MHz	3300-4200 MHz	4900-6000 MHz	2400-2500 MHz
Polarization	Vertical					
Horizontal Beamwidth	360°	360°	360°	360°	360°	360°
Gain	4 dBi	6 dBi	7 dBi	8 dBi	5 dBi	6 dBi
VSWR	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Port-to-Port Isolation	> 10 dBm	> 10 dBm	> 10 dBm	> 10 dBm	> 12 dBm	> 12 dBm
Nominal Impedance	50 Ohms					

GNSS/GPS Electrical Specifications

Cable Number	Cable 10: GNSS/GPS
Operating Frequency Range	1562-1612 MHz
Gain	26 dB LNA
VSWR	< 2.0 ± 4 MHz
Out of Band Rejection	> 40 dB
Typical Noise Figure	-2.7 dB
Operating Voltage	3-5 VDC
Typical Current	15 mA



Features & Benefits

- Multiband 10-in-1 VenDome™ omnidirectional antenna with FAKRA leads.
- 4x4 ultra-wideband (617-6000 MHz) to support MIMO/diversity at 4G/5G; 5x dual band 2.4/5 GHz Wi-Fi and a GNSS/GPS antenna with 26 dB gain LNA.
- Indoor and outdoor rated IP69K design with UV stabilized radome.
- Compatible with Sierra XR80 gateway.



All product specifications are subject to change without notice or obligation.

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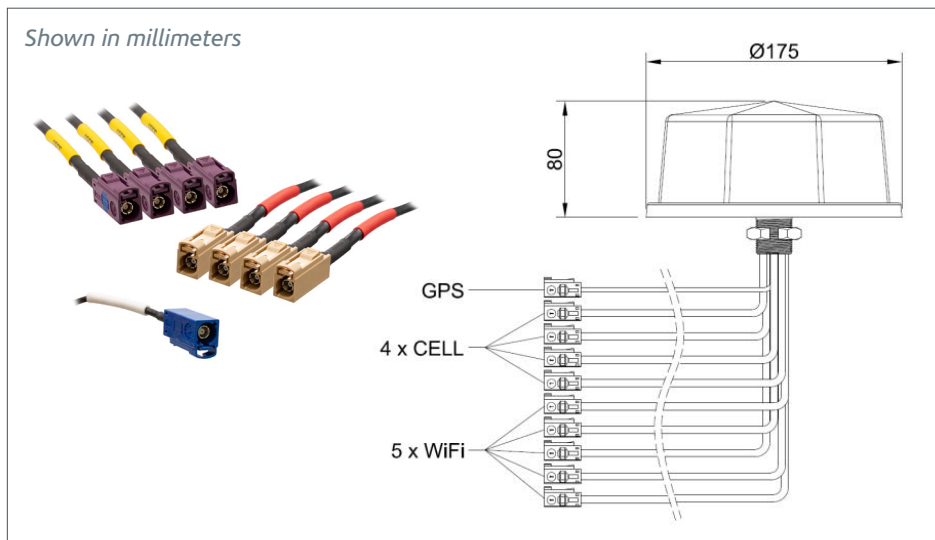
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Mechanical Specifications

Dimensions	7 in. diameter, 3.15 in. high (175 x 80 mm)
RF Connector	4 Cellular Cables: FAKRA D (Purple) Female 5 Wi-Fi Cables: FAKRA I (Beige) Female 1 GNSS/GPS Cable: FAKRA C (Blue) Female
Number of Ports	10
Pigtail/Lead	4 Cellular Cables: RG58 5 Wi-Fi Cables: RG58 1 GNSS/GPS Cable: RG174
Length of Lead	17 ft. (5.18 m)
Radome	White UV Stabilized ABS (black option available with 25 unit MOQ by contacting Ventev sales)
Application	Indoor/Outdoor
Mounting Options	Wall or Ceiling
Operating Temperature	-40° to 176°F (-40° to 80°C)
Ingress Protection	IP69K
Weight	4.2 lbs. (1.9 kg)

Dimensions & Cables



Installation Instructions

- Mount through a 1 inch hole using the stainless nut (silicone O-ring is included).
- Use adhesive backed sealing pad in on the back to minimize shaking.

Additional Accessories



Universal L-Bracket Mount for Omni Antennas

MFG Part #: VEN-ULBD-0214
SKU #: 274461



2-Leg Magnetic Heavy-Duty Mount for VenDome™ Antenna

MFG Part #: VEN-MGMT-2LEG
SKU #: 600876



3-Leg Magnetic Heavy-Duty Mount for VenDome™ Antenna

MFG Part #: VEN-MGMT-3LEG
SKU #: 600881



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