

DATA SHEET

Fortinet Antenna Portfolio

Indoor and Outdoor Antennas

Fortinet offers many different antenna options that can be used with our FortiAP line of products. These antennas can help to optimize coverage and overall wireless performance in a range of installation settings. Antennas come in a variety of patterns and with various numbers of antenna elements to help installers find the best match for their equipment.



Available Models

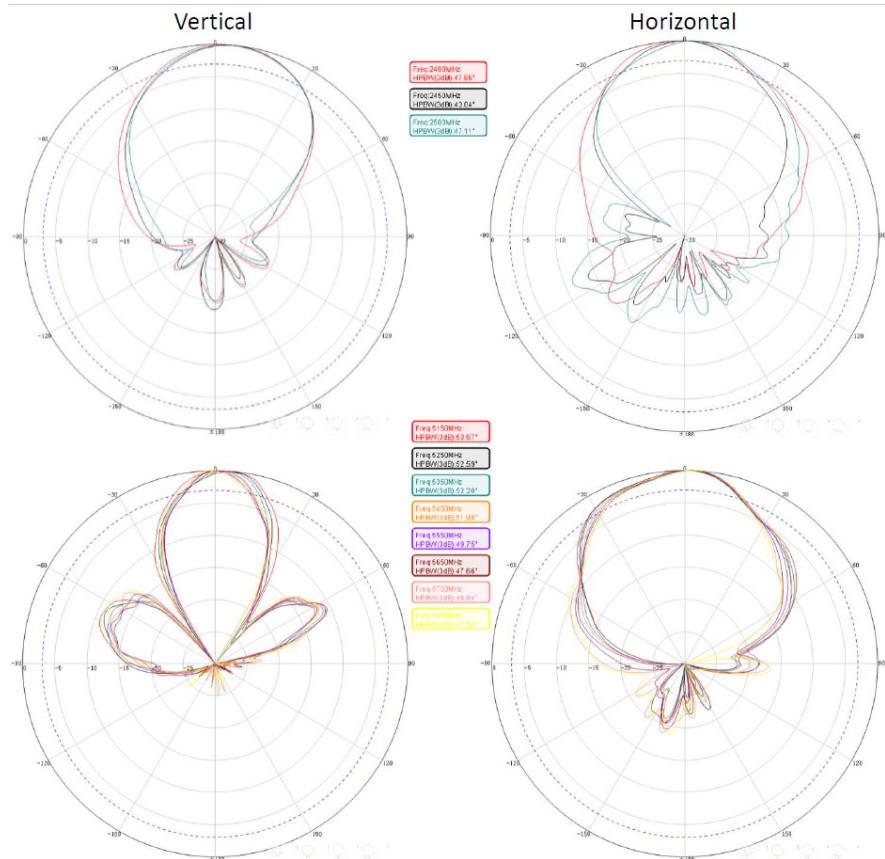
SKU	PATTERN	GAIN	LEADS	APPLICATION
FANT-04ABGN-2504-O-R	Omni	2.5 dBi (2.4 GHz) / 4 dBi (5 GHz)	4 RPSMA	Indoor / Outdoor
FANT-04ABGN-0606-O-R	Omni	6 dBi	4 RPSMA	Indoor / Outdoor
FANT-04ABGN-0606-O-N	Omni	6 dBi	4 N-Type	Indoor / Outdoor
FANT-06ABGN-0606-O-R	Omni	6 dBi	6 RPSMA	Indoor / Outdoor
FANT-06ABGN-2504-O-R	Omni	2.5 dBi (2.4 GHz) / 4 dBi (5 GHz)	6 RPSMA	Indoor Plenum
FANT-04ABGN-0606-P-R	Patch	6 dBi	4 RPSMA	Indoor / Outdoor
FANT-04ABGN-1414-P-N	Patch	14 dBi	4 N-Type	Indoor / Outdoor
FANT-04ABGN-8065-P-N	Patch	8 dBi (2.4 GHz) / 6.5 dBi (5 GHz)	4 N-Type	Indoor / Outdoor
FANT-08ABGN-1213-D-R	Directional	12 dBi (2.4 GHz) / 13 dBi (5 GHz)	8 RPSMA	Indoor / Outdoor
FANT-06ACAX-8509-D-N	Directional	2.4-2.5 GHz @ 6x8.5 dBi 5.15-5.875 GHz @ 6x9 dBi	6 N-Type	Indoor / Outdoor
FANT-10ACAX-1213-D-N	Directional	12dBi / 13dBi	10 N-Type	Indoor / Outdoor

HIGHLIGHTS

FANT-10ACAX-1213-D-N

This high gain directional antenna is well suited for use outdoors, in warehouses, or in manufacturing environments where it must withstand exposure to moisture and dust. The narrow beam widths of this dual-polarized antenna are ideal for high-density environments including large public venues. This antenna features ten dual band pigtails and Type N connectors. An articulating mount is included with the antenna.

SPECIFICATIONS		
Frequency Range	2.4-2.5 GHz	5.1-5.9 GHz
Gain	12 dBi	13 dBi
Vertical Beamwidths	65°	70°
Horizontal Beamwidths	60°	65°
Nominal Impedance	50 ohms	50 ohms
VSWR	≤2.0	
Front-to-Back Ratio (dB)	≤18	≤25
Port-to-Port Isolation (dB)	≤28	
Connectors	10 x N-Male	
Cable Length	36 in. RG58 (91.4 cm)	
Dimensions	14.6 in. x 14.6 in. x 1.5 in. (37.1 x 37.1 x 3.81 cm)	
Weight	2.6 lb. (1.18 kg)	
Environment	Indoor / Outdoor	
Ingress Protection	IP-54 Compliant	
Operating Temperature	-40°F to +140°F (-40°C to +60°C)	

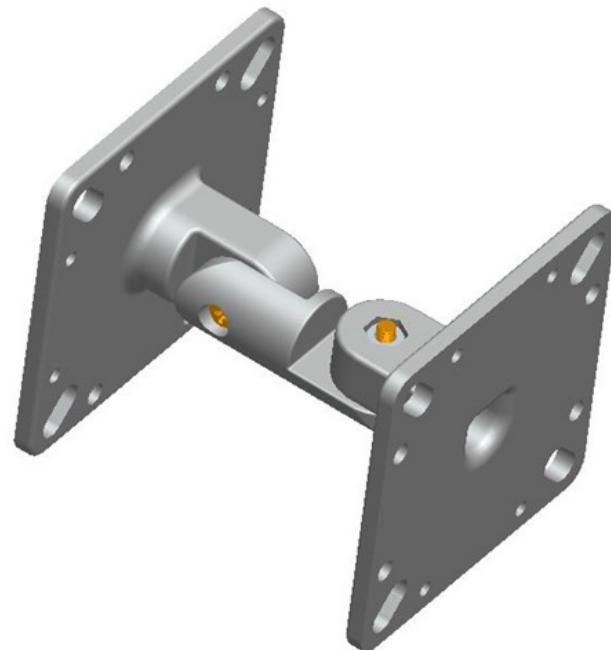


MOUNTING HARDWARE

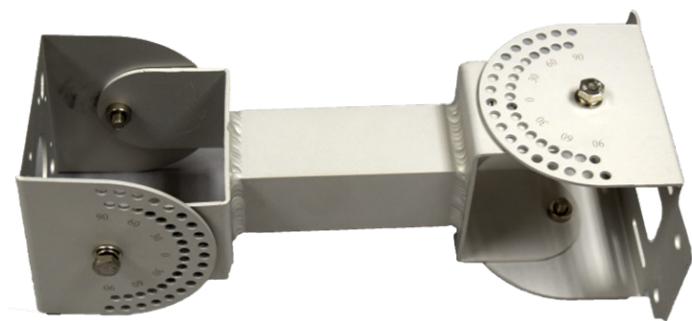
SKU	MOUNTING HARDWARE INCLUDED	MOUNTING BRACKET BOLT PATTERN	MOUNT STAND OFF ANTENNA DISTANCE
FANT-04ABGN-2504-O-R	Nut (Ceiling Mount)	N/A	N/A
FANT-04ABGN-0606-O-R	L-Bracket	1.97 in. x 2.36 in.	1.5 in.
FANT-04ABGN-0606-O-N	L-Bracket	1.97 in. x 2.36 in.	1.5 in.
FANT-06ABGN-0606-O-R	L-Bracket	1.97 in. x 2.36 in.	1.5 in.
FANT-06ABGN-2504-O-R	Nut (Ceiling Mount)	N/A	N/A
FANT-04ABGN-0606-P-R	Universal Articulating Mount	2 in. x 2 in.	3.3 in.
FANT-04ABGN-1414-P-N	Industrial Articulating Mount	Multiple (incl. 2 in. x 2 in.)	5.91 in.
FANT-04ABGN-8065-P-N	Universal Articulating Mount	2 in. x 2 in.	3.3 in.
FANT-08ABGN-1213-D-R	10 in. Strong Arm Mount	2 in. x 2 in.	10 in.



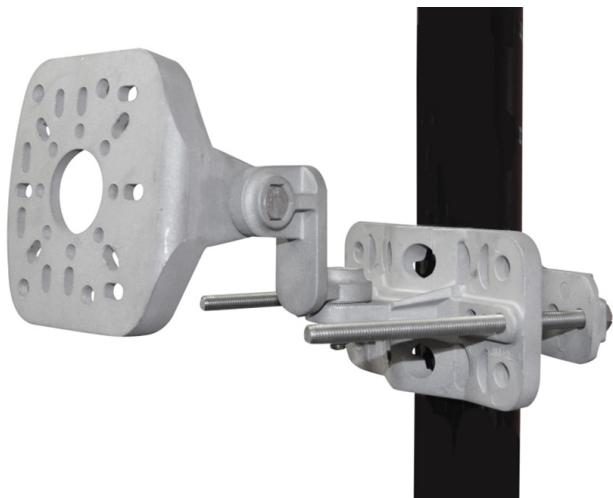
L-Bracket



Universal Articulating Mount



Strong Arm Mount



Industrial Articulating Mount

SKU COMPARISON

SKU	FANT-04ABGN-2504-O-R	FANT-04ABGN-0606-O-R / FANT-04ABGN-0606-O-N	FANT-06ABGN-0606-O-R	FANT-06ABGN-2504-O-R	FANT-04ABGN-0606-P-R	FANT-04ABGN-1414-P-N	FANT-04ABGN-8065-P-N	FANT-08ABGN-1213-D-R
Frequency	2400-2500 MHz 4900-5850 MHz	2400-2500 MHz 5150-5850 MHz	2400-2500 MHz 5150-5850 MHz	2400-2483 MHz 5150-5850 MHz	2400-2500 MHz 5150-5850 MHz	2400-2500 MHz 5150-5850 MHz	2400-2500 GHz 5100-5900 GHz	2400-2500 MHz 5150-5850 MHz
Bandwidth	100 MHz & 960 MHz	100 MHz & 700 MHz	100 MHz	83 MHz & 700 MHz	--	100 MHz & 700 MHz	--	100 MHz & 700 MHz
Gain	2.5 dBi / 4 dBi	6 dBi	6 dBi	2.5 dBi / 4 dBi	6 dBi	14 dBi	8 dBi / 6.5 dBi	12 dBi / 13 dBi
Vertical Beamwidth	--	45° / 20°	35° / 25°	55° / 60°	80±20° / 45±20°	35°	65° / 70°	45° / 28° (Ports 1-4) 50° / 40° (Ports 5-8)
Horizontal Beamwidth	360°	360°	360°	360°	80±20° / 45±20°	35°	60° / 65°	50° / 40° (Ports 1-4) 45° / 28° (Ports 5-8)
VSWR	≤2	≤2.2	Typical ≤1.5 - 2.0	≤2.0 / ≤2.5	≤2.0 / ≤2.5	≤2	≤2	≤2.25
Front-to-back ratio	--	--	--	--	≤18	--	>13 dB / >15 dB	≤19 dB
Port to Port Isolation	--	--	--	--	--	--	>25 dB / >30 dB	≤18 dB / ≤ 25 dB
Nominal Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Polarization	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical / Linear	--	4x Horizontal / 4x Vertical
Isolation	--	≤-15dB	≤-15dB	--	--	≤28dB	--	--
Max Power	50 Watts	10 Watts	10 Watts	50 Watts	100 Watts	50 Watts	--	50 Watts
Lightning Protection	--	Not DC Grounded	Not DC Grounded	--	--	--	--	--
Connectors	4 x RP SMA Male 4 x N-Type Male	4 x RP SMA Male or 4 x N-Type Male	6 x RP SMA Male	6 x RP SMA Male	4 x RP SMA Male	N-Type Male	4 x N-Type Male	8 x RP SMA Male
Cable Length	4X CABLE RP SMA PLUG D12MM- 4X 36INCH-CABLE RP SMA PLUG HOLE 4X 36INCH-CABLE N-PLUG	4X 36INCH-CABLE RP SMA PLUG 4X 36INCH-CABLE N-PLUG	6X 36INCH-CABLE RP SMA PLUG	6X 36INCH-CABLE RP SMA PLUG	4X 36INCH-CABLE RP SMA PLUG	--	4X 24INCH-CABLE N-PLUG	8X 36INCH-CABLE RP SMA PLUG
Pigtal Length	36 in. with Connector 91.44 cm with Connector	36 in. with Connector 91.44 cm with Connector	36 in. with Connector 91.44 cm with Connector	36 in. with Connector 91.44 cm with Connector	36 in. with Connector 91.44 cm with Connector	Need to order separately	--	36 in. with Connector 91.44 cm with Connector
Environment	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor - Plenum rated	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Ingress Protection	--	--	--	--	--	--	IP-66 Compliant	IP-54 Compliant
Operating Temperature	-40°F to +158°F -40°C to +70°C	-40°F to +158°F -40°C to +70°C	-40°F to +158°F -40°C to +70°C	-40°F to +158°F -40°C to +70°C	-40°F to +140°F -40°C to +60°C	-22°F to +158°F -30°C to +70°C	-40°F to +140°F -40°C to +60°C	-40° to 140° F -40° to 60° C
Wind Load	--	134 mph 216 km/h	134 mph 216 km/h	--	--	--	--	100 mph 160 km/h
Mounting Method	Surface	Mast or Wall	Mast or Wall	Ceiling	Wall or Mast/Pole	Mast	--	--

ORDER INFORMATION

PRODUCT	SKU	DESCRIPTION
Fortinet Antennas	FANT-04ABGN-2504-O-R	2.4/5GHz 2.5/4dBi Wi-Fi Omni Micro Antenna with 4 RP SMA Connectors
	FANT-04ABGN-0606-O-R	2.4/5GHz 6dBi Wi-Fi Omni Antenna with 4 RP SMA Connectors
	FANT-04ABGN-0606-O-N	2.4/5GHz 6dBi Wi-Fi Omni Antenna with 4 N-Style Connectors
	FANT-06ABGN-0606-O-R	2.4/5GHz 6dBi Wi-Fi Omni Antenna with 6 RP SMA Connectors
	FANT-06ABGN-2504-O-R	2.4/5GHz 2.5/4 dBi Wi-Fi Omni Antenna with 6 RP SMA Connectors (Ceiling Mount)
	FANT-04ABGN-0606-P-R	2.4/5GHz 6dBi Wi-Fi Patch (H:80/45/V:45/80) Antenna with 4 RP SMA Connectors
	FANT-04ABGN-1414-P-N	2.4/5GHz 14dBi Wi-Fi Patch (H:35/V:35) Antenna with 4 N-Style Connectors
	FANT-04ABGN-8065-P-N	2.4/5GHz 8/6.5dBi Wi-Fi Patch (H:60/65/V:65/70) Antenna with 4 N-Style Connectors
	FANT-08ABGN-1213-D-R	2.4/5 GHz 12/13 dBi Wi-Fi Directional Antenna (H:50/40/V:45/28) with 8 RP SMA Connectors
	FANT-06ACAX-8509-D-N	2.4/5 GHz 8.5/9 dBi Wi-Fi Directional Antenna


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