



FortiAP™

Directional outdoor panel antennas



FAN-612R and FAN-612N 120° Sector

FAN-612R and FAN-612N are a dual-band 2-element 120 degree sector antenna for use in 802.11n MIMO applications. The antenna provides coverage of 2.4 to 2.5 GHz and 4.9 to 5.9 GHz in a single antenna radome. The light weight and durable construction and UV-protected radome made of plastic allow both indoor and outdoor installation. Usage scenarios include:

- This antenna is also suitable for coverage of large rectangular areas like shopping centers, courtyards and hallways.
- Two FAN-612R can be used with the FAP-223B to provide full dual-band dual-radio 802.11a/b/g/n MIMO coverage. Outdoor coverage can be provided by placing FAP-223B indoor and the antenna outdoor on the opposite side of the wall.
- FAN-612N can be used with the FAP-222B to provide full dual-band dual-radio 802.11a/b/g/n MIMO coverage.



FAN-500N Point-to-point

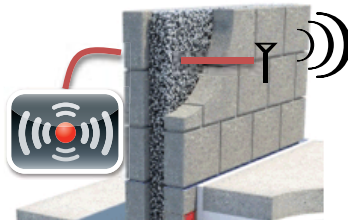
FAN-500N is a single-band 2-element 12 degree point-to-point antenna for use in 802.11n MIMO applications. The antenna provides coverage of 4.9 to 5.9 GHz in a single antenna radome. The light weight and durable construction and UV-protected radome made of plastic allow both indoor and outdoor installation. Usage scenarios include:

- Building to building bridging for use with FAP-222B.
- Coverage to clients along narrow corridor.



FAN-M22

FAN-M22 is a versatile adjustable mount for use with the N-type antennas FAN-612N and FAN-500N. The mount made of die cast aluminum is suitable for pole and wall mounting.



FortiCare

Worldwide 24x7 Support
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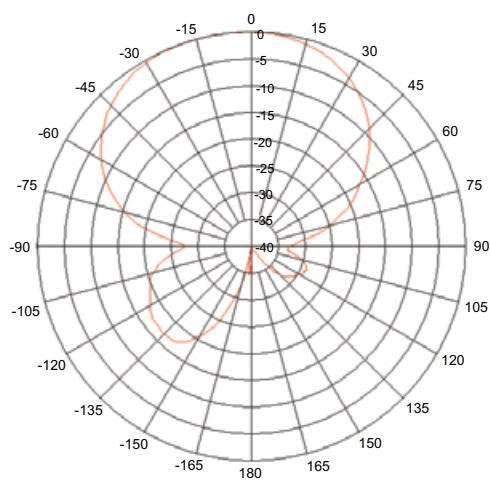
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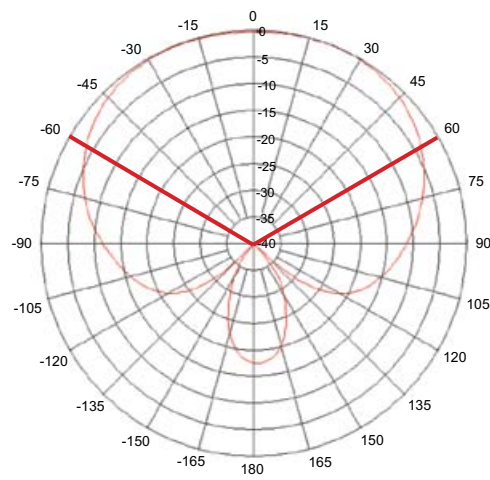
RADIATION PATTERNS FOR FAN-612R AND FAN-612N

E-Plane Pattern

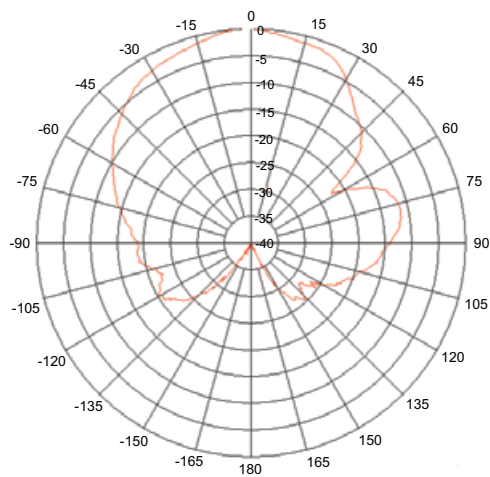


**Frequency
2500 MHz**

H-Plane Pattern

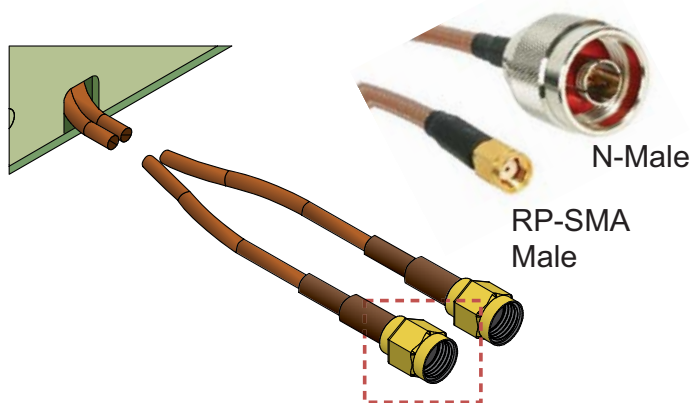
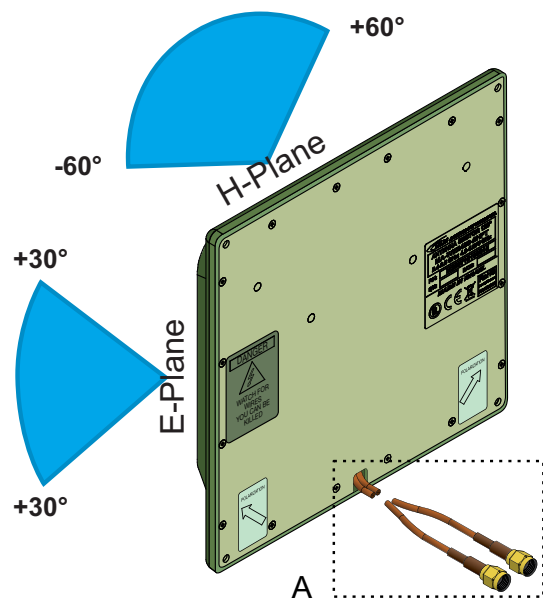
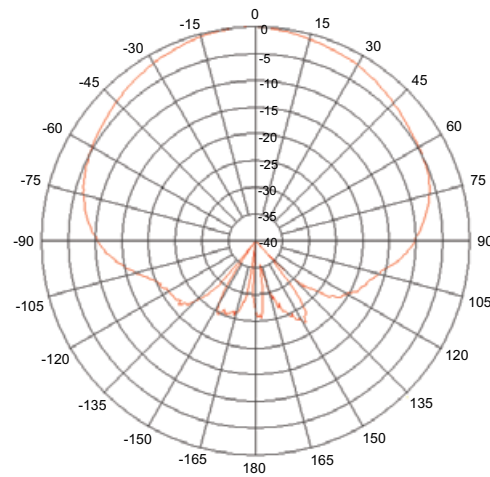


E-Plane Pattern

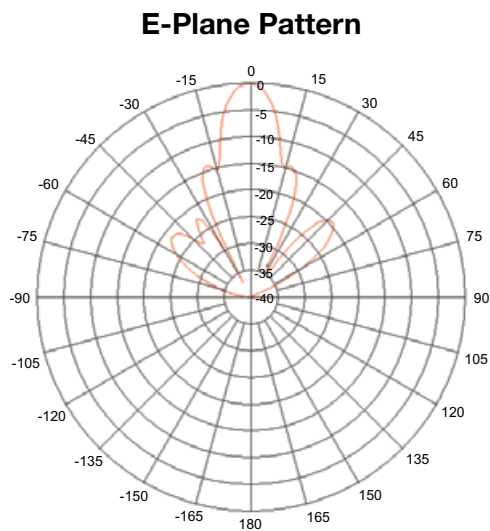


**Frequency
5500 MHz**

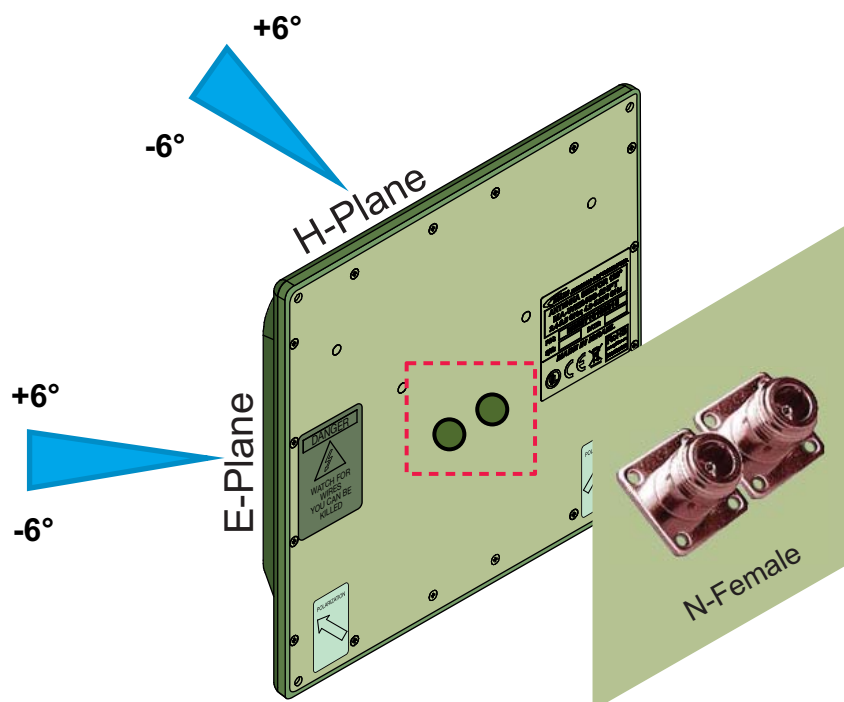
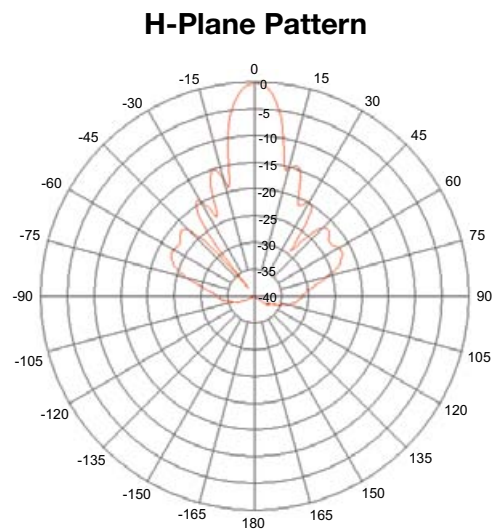
H-Plane Pattern



RADIATION PATTERNS FOR FAN-500N



**Frequency
5500 MHz**





SPECIFICATIONS

FORTINET SKU	FAN-612R	FAN-612N	FAN-500N
Electrical			
Frequency range	2.4–2.5 GHz and 4.9–5.9 GHz (dual band)	2.4–2.5 GHz and 4.9–5.9 GHz (dual band)	4.9–5.9 GHz
Gain	2 x 5 dBi	2 x 5 dBi	2 x 20 dBi
Beam Width Horizontal	120 degrees	120 degrees	12 degrees
Beam Width Vertical	60 degrees	60 degrees	12 degrees
Maximum Input Power	20 watt	20 watt	10 watt
Input Impedance	50 Ohm	50 Ohm	50 Ohm
VSWR	1.5:1 typical	1.5:1 typical	1.7:1 typical
Mechanical			
Dimension (Height x Width x Diameter)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")	305 x 305 x 15 mm (12" x 12" x 1.6")
Weight	260 grams (9.2 oz.)	260 grams (9.2 oz.)	900 grams (2 lbs)
Cable Length	2 x 1.2 meter Coaxial Cable RG 316 White	2 x 1.2 meter Coaxial Cable RG 316 White	N/A
Connector	RP-SMA-Type male connectors for use with FAP-223B	N-Type male connectors	N-Type male connectors in back of antenna
Mount	Wall mount and pole mount require FAN-M22 part. 4 drywall and concrete wall anchors included.	Wall mount. 4 drywall and concrete wall anchors included.	FAN-M22 screw connector
Radome	UV Protected Polycarbonate	UV Protected Polycarbonate	YUV Protected Polycarbonate
Environmental			
Operating and Storage Temperature Range	-40°C to +70°C	-40°C to +70°C	-55°C to +65°C
Wind Load	N/A	N/A	(with FAN-M22) 200 km/h
Water Proof Rating	IP65	IP65	IP67
Salt Fog	According to IEC 68-2-11	According to IEC 68-2-11	According to IEC 68-2-11
Vibration	According to IEC 60721-3-4	According to IEC 60721-3-4	According to IEC 60721-3-4
Flammability	UL94	UL94	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)	ETS 300 019-1-4, EN 302 085 (annex A.1.1)	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

ORDER INFORMATION

Product	SKU	Description
FAN-612R external antenna (RP-SMA type)	FAN-612R	Directional 120 degree outdoor panel antenna. Includes two 120cm cables with RP-SMA connectors.
FAN-612N external antenna (N type)	FAN-612N	Directional 120 degree outdoor panel antenna. Includes two 120cm cables with N connectors.
FAN-500N external antenna (N type)	FAN-500N	Point to point antenna for 5 GHz bridging with N connectors. ~21 dBi gain.
Antenna Mount	FAN-M22	Pole/wall mount kit for FAN-500N and FAN-612N.

FORTINET®

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