





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 dualradio 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
- 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:

FAN-500N

- 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.





FAN-M22

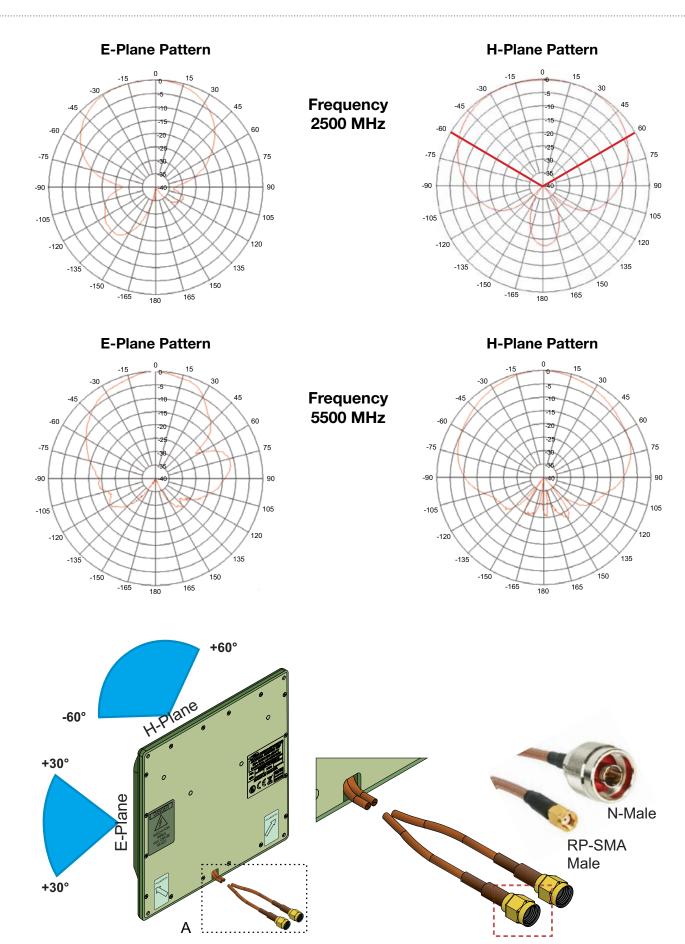




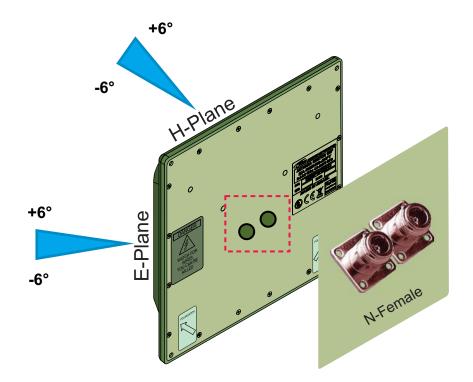
FAN-612R

FAN-612N

RADIATION PATTERNS FOR FAN-612R AND FAN-612N



RADIATION PATTERNS FOR FAN-500N











SPECIFICATIONS

| | 1.7 | 1.7 | | |
|---|---|--|---|--|
| 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 | |
| Bean Width Horizontal | 120 degrees | 120 degrees | 12 degrees | |
| Bean Width Vertical | 60 degrees | 60 degrees | 12 degrees | |
| /laximum Input Power | 20 watt | 20 watt | 10 watt | |
| nput Impedance | 50 Ohm | 50 Ohm | 50 Ohm | |
| SRW | 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" x12" x1.6") | |
| Veight | 260 grams (9.2 oz.) 260 grams (9.2 oz.) 900 grams (2.1 | | 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 | | |
| 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 | |
| Vind Load | N/A N/A (with FAN-M2 | | (with FAN-M22) 200 km/h | |
| Vater Proof Rating | IP65 | IP65 | IP67 | |
| alt Fog | According to IEC 68-2-11 According to IEC 68-2-11 According to IEC 68 | | According to IEC 68-2-11 | |
| /ibration | According to IEC 60721-3-4 | | | |
| Flammability | UL94 | | | |
| Humidity | ty 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. |



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