Overview

Models

HP Indoor Omnidirectional Dual Band 2.5/6dBi MIMO 6 Element Antenna	J9659A
HP Indoor Omnidirectional Dual Band 3/4dBi MIMO 3 Element Antenna	J9171A
HP Indoor-Outdoor Point-to-Point Dual Band 10/13dBi MIMO 3 Element Antenna	J9170A
HP Indoor-Outdoor Narrow Sector Dual Band 8/10dBi MIMO 3 Element Antenna	J9169A
HP Outdoor Omnidirectional 6dBi at 2.4GHz MIMO 3 Element Antenna	J9719A
HP Outdoor Omnidirectional 8dBi at 5GHz MIMO 3 Element Antenna	J9720A

Key features

- Indoor aesthetically pleasing housing
- Indoor MIMO antennas ideal for ceiling mount
- Indoor antennas include ceiling mounting hardware
- Outdoor antenna includes pole mount hardware

Product overview

These MIMO antennas support both the 2.4GHz and 5GHz bands and have been specifically tested with the EMSM466 and MSM466-R three spatial stream AP. This is specifically designed to meet the needs of today's most demanding wireless LAN deployments. The MSM MIMO external antennas support the MSM466 and the MSM466-R dual band access point deployments, providing maximum flexibility to help optimize coverage and radio signal predictability. Each external antenna includes the necessary installation hardware to extend a robust wireless network across an entire campus, or for in-building environments.

Features and benefits

Mobility

- **High-gain omnidirectional or directional antennas**: provide specific RF pattern characteristics to increase wireless coverage and signal gain or overcome physical/RF interference
- Choice of indoor and outdoor antennas: extend the reach of a wireless LAN within an office, warehouse, or retail environment or for campus-wide indoor and outdoor coverage
- Choice of mounting options: for ease of deployment, each antenna includes the necessary mounting hardware to quickly get a wireless LAN up and running
- Certified external antennas: specifically designed and certified for use with wireless access points
- MIMO Antennas have three or six embedded elements: each antenna has either three of six dual band elements for an easy and clean installation



Technical Specifications

HP Indoor Omnidirectional Dual Band 2.5/6dBi MIMO 6 Element Antenna (J9659A)

Electrical characteristics Frequency range 1 2400 - 2500

Gain 1 dBi (with antenna 2.5

cable)

Frequency range 2 5150 - 5850

Gain 2 dBi (with antenna 5.9

cable)

VSWR max 2:0

H-Plane (3 dB Omnidirectional

beamwidth)

Polarization Linear (vertical)

Impedance (Ohms) 50

RF connector Reverse SMA (male)

Cable length 2.75 ft. (0.84 m)

Physical characteristics Dimensions 8.58(d) x 1.69(h) in. (21.79 x 4.29 cm)

Weight 1.5 lb. (0.68 kg)

Mounting style Single 1 inch diameter hole

Enclosure Polycarbonate

Environment Operating temperature -22°F to 131°F (-30°C to 55°C)

Nonoperating/Storage -40°F to 149°F (-40°C to 65°C)

temperature

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

and product numbers. For details about services and response times in your area, please contact your

local HP sales office.

HP Indoor Omnidirectional Dual Band 3/4dBi MIMO 3 Element Antenna (J9171A)

Electrical characteristics Frequency range 1 2400 - 2500

Gain 1 dBi (with antenna 3

cable)

Frequency range 2 4900 - 5900

Gain 2 dBi (with antenna 4

cable)

VSWR max 2:1

E-Plane (3 dB beamwidth) 60 degrees

H-Plane (3 dB

Polarization

beamwidth)

Impedance (Ohms) 50

RF connector Reverse SMA (male)
Cable length 2.75 ft. (0.84 m)



Omnidirectional

Linear (vertical)

Technical Specifications

Physical characteristics Dimensions $3.6(d) \times 12.14(w) \times 0.87(h)$ in. $(9.14 \times 30.84 \times 2.21 \text{ cm})$

Weight 0.86 lb. (0.39 kg)

Mounting style Ceiling

Enclosure White ASA IP-67 rated

Environment Operating temperature -22°F to 131°F (-30°C to 55°C)

Nonoperating/Storage -40°F to 149°F (-40°C to 65°C)

temperature

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

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local HP sales office.

HP Indoor-Outdoor Point-to-Point Dual Band 10/13dBi MIMO 3 Element Antenna (J9170A)

Electrical characteristics Frequency range 1 2400 - 2500

Gain 1 dBi (with antenna 10.9

cable)

Frequency range 2 5100 - 5900

Gain 2 dBi (with antenna 13.5

cable)

VSWR max 2:1

E-Plane (3 dB beamwidth) 45/20 degrees H-Plane (3 dB 45/20 degrees

beamwidth)

Polarization Linear (vertical)

Impedance (Ohms) 50
RF connector N (male)

Cable length 2.75 ft. (0.84 m)

Physical characteristics Dimensions $1.4(d) \times 16.2(w) \times 14.7(h)$ in. $(3.56 \times 41.15 \times 37.34 \text{ cm})$

Weight 2.43 lb. (1.1 kg)

Mounting style Pole Mount

Enclosure White ASA IP-67 rated

Environment Operating temperature -22°F to 149°F (-30°C to 65°C); IP-67 rated for outdoor use

Nonoperating/Storage -40°F to 149°F (-40°C to 65°C)

temperature

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

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Technical Specifications

HP Indoor-Outdoor Narrow Sector Dual Band 8/10dBi MIMO 3 Element Antenna (J9169A)

Electrical characteristics Frequency range 1 2400 - 2500

Gain 1 dBi (with antenna 8

cable)

Frequency range 2 5100 - 5900

Gain 2 dBi (with antenna 10.7

cable)

VSWR max 2:1 E-Plane (3 dB beamwidth) 75/55 H-Plane (3 dB 70/60

beamwidth)

Polarization Linear (vertical)

Impedance (Ohms) 50
RF connector N (male)

Cable length 2.75 ft. (0.84 m)

Physical characteristics Dimensions $3.6(d) \times 12.14(w) \times 0.87(h)$ in. $(9.14 \times 30.84 \times 2.21 \text{ cm})$

Weight 0.86 lb. (0.39 kg)

Mounting style Ceiling

Enclosure White ASA IP-67 rated

Environment Operating temperature -22°F to 149°F (-30°C to 65°C); IP-67 rated for outdoor use

Nonoperating/Storage -40°F to 149°F (-40°C to 65°C)

temperature

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

and product numbers. For details about services and response times in your area, please contact your

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HP Outdoor Omnidirectional 6dBi at 2.4GHz MIMO 3 Element Antenna (J9719A)

Electrical characteristics Frequency range 1 2400 - 2500

Gain 1 dBi (with antenna 6

cable)

Impedance (Ohms) 50

RF connector N Type (Male) x 3

Cable length 3 ft. (.9 m)

Physical characteristics Dimensions 8.25(d) x 10(h) in. (20.96 x 25.4 cm)

Wind surface area .32 sq. ft. (0.03 sq. m)
Wind survival 125 mph (201.13 km/hr)

Mounting style Pole or Wall

Environment Operating temperature -22°F to 158°F (-30°C to 70°C)

Nonoperating/Storage -40°F to 185°F (-40°C to 85°C)

temperature

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

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Technical Specifications

HP Outdoor Omnidirectional 8dBi at 5GHz MIMO 3 Element Antenna (J9720A)

Electrical characteristics Frequency range 1 5150 - 5875

Gain 1 dBi (with antenna 8

cable)

Impedance (Ohms) 50

RF connector N Type (Male) x 3

Cable length 3 ft. (.9 m)

Physical characteristics Dimensions 8.25(d) x 10(h) in. (20.96 x 25.4 cm)

Wind surface area .32 sq. ft. (0.03 sq. m)
Wind survival 125 mph (201.13 km/hr)

Mounting style Pole or Wall

Environment Operating temperature -22°F to 158°F (-30°C to 70°C)

Nonoperating/Storage -40°F to 185°F (-40°C to 85°C)

temperature

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

and product numbers. For details about services and response times in your area, please contact your

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Accessories

Wireless MIMO Antennas accessories	ennas HP Indoor-Outdoor Point-to-Point Dual Band 10/13dBi MIMO 3 Element Antenna (J9170A) HP Antenna Lightning Arrester	
	HP Indoor-Outdoor Narrow Sector Dual Band 8/10dBi MIMO 3 Element Antenna (J9169A)	
	HP Antenna Lightning Arrester	J8996A
	HP Outdoor Omnidirectional 6dBi at 2.4GHz MIMO 3 Element Antenna (J9719A)	
	HP Antenna Lightning Arrester	J8996A
	HP Outdoor Omnidirectional 8dBi at 5GHz MIMO 3 Element Antenna (J9720A)	
	HP Antenna Lightning Arrester	J8996A



Accessory Product Details

NOTE: Details are not available for all accessories. The following specifications were available at the time of publication.

HP Dual-Band Antenna Lightning Arrester (J8996A)	Electrical characteristics Physical characteristics	VSWR max Dimensions	1.4:1 2.4(d) x 0.9(w) x 1.2(h) in. (6.1 x 2.29 x 3.05 cm)
	Notes	Input RF power, 100 MHz/6000 MHz: 250 W/10 W 50 Meg Ohm insulation resistance Maximum insertion loss of 0.4 dB Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	
	Services		

To learn more, visit: www.hp.com/networking

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