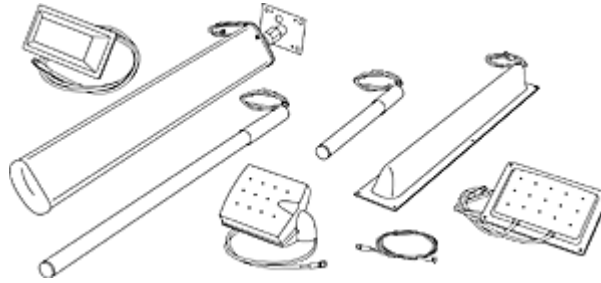


### Overview



### Models

HP 8 dBi @ 2.4GHz Outdoor Omnidirectional Antenna	J8444A
HP 5 dBi @2.4GHz Indoor/Outdoor Omnidir Antenna	J8441A
HP Dual-Band Antenna Lightning Arrester	J8996A
HP 3 dBi Dual-Band Diversity Antenna	J8997A
HP 7 dBi Dual-Band Directional Antenna	J8999A

### Product overview

The E-series family of 2.4 GHz, 5 GHz, and dual-band access point antennas is specifically designed to meet the needs of today's most demanding wireless LAN deployments. E-series external antennas support both single- and 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

#### Additional information

- **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

### Technical Specifications

HP 8 dBi @ 2.4GHz Outdoor Omnidirectional Antenna (J8444A)	Electrical characteristics	Frequency range 1	2400 - 2500
		Gain 1 dBi (with antenna cable)	8
	Physical characteristics	VSWR max	1.5:1
		E-Plane (3 dB beamwidth)	13 degrees
		H-Plane (3 dB beamwidth)	Omnidirectional
		Polarization	Linear (vertical)
		Impedance (Ohms)	50
		RF connector	N (male)
		Cable length	2.75 ft. (0.84 m)
		Dimensions	25.25(h) in. (64.14 cm)
		Wind surface area	0.11 sq. ft. (0.01 sq. m)
		Wind survival	125 mph (201.13 km/hr)
	Weight	0.5 lb. (0.23 kg)	
	Environment	Mounting style	Mast
		Enclosure	Polycarbonate
		Operating temperature	-22°F to 131°F (-30°C to 55°C)
Services	Nonoperating/Storage temperature	-40°F to 149°F (-40°C to 65°C)	
	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.		

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HP 5 dBi @2.4GHz Indoor/Outdoor Omnidir Antenna (J8441A)	Electrical characteristics	Frequency range 1	2400 - 2500
		Gain 1 dBi (with antenna cable)	4.4
	Physical characteristics	VSWR max	1.7:1
		E-Plane (3 dB beamwidth)	31 degrees
		H-Plane (3 dB beamwidth)	Omnidirectional
		Polarization	Linear (vertical)
		Impedance (Ohms)	50
		RF connector	Reverse SMA (male)
		Cable length	2.75 ft. (0.84 m)
		Dimensions	11.5(h) in. (29.21 cm)
		Wind surface area	0.08 sq. ft. (0.01 sq. m)
		Wind survival	125.1 mph (201.13 km/hr)
	Weight	0.30 lb. (0.14 kg)	
	Mounting style	Mounting style	Ceiling T-bar, I-beam, or mast
		Enclosure	Polycarbonate



### Technical Specifications

Environment	Operating temperature	-22°F to 131°F (-30°C to 55°C)
	Nonoperating/Storage temperature	-40°F to 149°F (-40°C to 65°C)
Services	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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 Dual-Band Antenna Lightning Arrester (J8996A)	Electrical characteristics	VSWR max	1.4:1
	Physical characteristics	Dimensions	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	
	Services	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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 3 dBi Dual-Band Diversity Antenna (J8997A)	Electrical characteristics	Frequency range 1	2400 - 2500
		Gain 1 dBi (with antenna cable)	3
	Physical characteristics	Frequency range 2	4900 - 5990
		Gain 2 dBi (with antenna cable)	4
		VSWR max	2.0:1
		E-Plane (3 dB beamwidth)	60 degrees
		E-plane radiation plots	2.45 GHz, E Plane
		H-Plane (3 dB beamwidth)	Omnidirectional
		H-plane radiation plots	2.45 GHz, H Plane
		Impedance (Ohms)	50
		Grounding	DC
		RF connector	Reverse SMA (male)
		Cable length	2.75 ft. (0.84 m)
		Dimensions	6.16(d) x 3.66(w) x 0.89(h) in. (15.65 x 9.3 x 2.26 cm)
		Weight	0.5 lb. (0.23 kg)
		Mounting style	Ceiling grid
		Enclosure	PVC/Acrylic
Environment	Operating temperature	-22°F to 131°F (-30°C to 55°C)	
	Nonoperating/Storage temperature	-40°F to 149°F (-40°C to 65°C)	



### Technical Specifications

	<b>Services</b>	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.		
<b>HP 7 dBi Dual-Band Directional Antenna (J8999A)</b>	<b>Electrical characteristics</b>	<b>Frequency range 1</b>	2400 - 2500	
		<b>Gain 1 dBi (with antenna cable)</b>	6.9	
		<b>Frequency range 2</b>	4900 - 5990	
		<b>Gain 2 dBi (with antenna cable)</b>	7.7	
		<b>VSWR max</b>	2.0:1	
		<b>E-Plane (3 dB beamwidth)</b>	66 degrees	
		<b>E-plane radiation plots</b>	E Plane 2.45 GHz	
		<b>H-Plane (3 dB beamwidth)</b>	68 degrees	
		<b>H-plane radiation plots</b>	H Plane 2.45 GHz	
		<b>Polarization</b>	Linear (vertical)	
		<b>Impedance (Ohms)</b>	50	
		<b>RF connector</b>	Reverse SMA (male)	
		<b>Cable length</b>	2.75 ft. (0.84 m)	
		<b>Physical characteristics</b>	<b>Dimensions</b>	5.16(d) x 5.16(w) x 1.37(h) in. (13.11 x 13.11 x 3.48 cm)
	<b>Wind surface area</b>		0.12 sq. ft. (0.01 sq. m)	
	<b>Wind survival</b>		120 mph (193.08 km/hr)	
	<b>Weight</b>		0.5 lb. (0.23 kg)	
	<b>Mounting style</b>		Flush wall mount, articulating wall, or mast	
	<b>Enclosure</b>		PVC/Acrylic	
	<b>Environment</b>	<b>Front-to-back ratio (dB)</b>	10	
<b>Operating temperature</b>		-22°F to 131°F (-30°C to 55°C)		
<b>Nonoperating/Storage temperature</b>		-40°F to 149°F (-40°C to 65°C)		
	<b>Services</b>	Refer to the HP website at: <a href="http://www.hp.com/networking/services">www.hp.com/networking/services</a> 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.		

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