

2.4 GHz Antennas



Whip

Gain	Description	Type	Connector Type	Part No.
0 dBi	Direct attach	WI-ANT-DEMO-2400	SMA male	6720005099
2 dBi	Direct attach	WI-ANT-24GHZ-2DB DUCK SMA-M	SMA male	6720005207
3 dBi	Use with MAG base 6720005263	WI-ANT-24GHZ-3DB FOR MAG BASE	N female	6720005208

Omni

Gain	Description	Type	Connector Type	Part No.
3 dBi	Direct Attach	WI-ANT-DPL-0-9	SMA male	6720005090
4 dBi	Inc. 6720005210 clamp/brkt	WI-ANT-24GHZ-4DB OMNI NF	N female	6720005200
6 dBi	Inc. 6720005210 clamp/brkt	WI-ANT-24GHZ-6DB OMNI NF	N female	6720005201
8 dBi	Inc. 6720005210 clamp/brkt	WI-ANT-24GHZ-8DB OMNI NF	N female	6720005204
10 dBi	Inc. 6720005210 clamp/brkt	WI-ANT-24GHZ-10DB OMNI NF	N female	6720005202
12 dBi	Inc. 6720005211 clamp/brkt	WI-ANT-24GHZ-12DB OMNI NF	N female	6720005203

Directional

Gain	Description	Type	Connector Type	Part No.
9 dBi (60°)	Inc. attached clamp/brkt	WI-ANT-24GHZ-9DB DFP 2'NF	N female	6720005212
10 dBi	Inc. attached clamp/brkt	WI-ANT-24GHZ-10DB YAGI NF	N female	6720005205
13 dBi (35°)	Inc. attached clamp/brkt	WI-ANT-24GHZ-13DB DFP 2'NF	N female	6720005213
14 dBi	Inc. attached clamp/brkt	WI-ANT-24GHZ-14DB YAGI NF	N female	6720005206
18 dBi (18°)	Inc. attached clamp/brkt	WI-ANT-24GHZ-18DB DFP 2'NF	N female	6720005214

900 MHz Antennas



Whip

Gain	Description	Type	Connector Type	Part No.
-2 dBd	Direct attach	WI-ANT-900MHZ-0DB DUCK SMA M	SMA male	6720005232
0 dBd	Mount Bkt & 3ft cable	WI-ANT-DPL-DG900-1	SMA male	6720005086
0 dBd	Direct attach	WI-ANT-DEMO-900	SMA male	6720005089
0 dBd	Mount Bkt & 15ft cable	WI-ANT-DPL-0-16	SMA male	6720005080
3 dBd	Only use with MAG Base 6720005263	WI-ANT-900MHZ-3DB STUB MAG	Determined by MAGBASE	6720005230

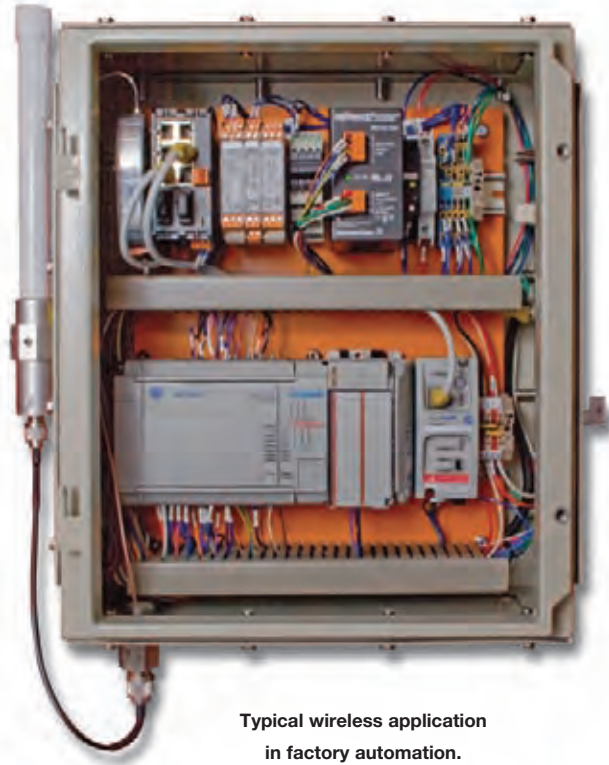
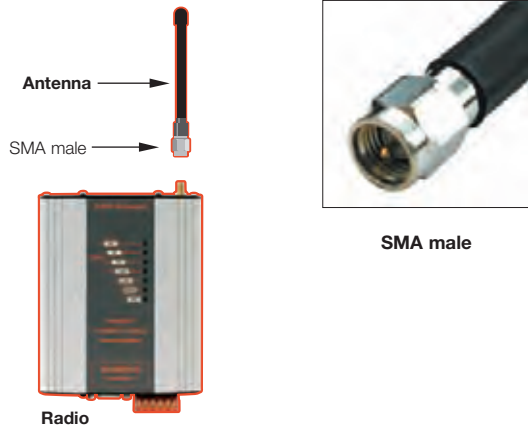
Omni

Gain	Description	Type	Connector Type	Part No.
0 dBd	Inc. 6720005271 clamp/brkt	WI-ANT-900MHZ-0DB OMNI NF	N female	6720005233
3 dBd	Inc. 6720005271 clamp/brkt	WI-ANT-900MHZ-3DB OMNI NF	N female	6720005234
5 dBd	Inc. 6720005271 clamp/brkt	WI-ANT-900MHZ-5DB OMNI NF	N female	6720005235
7 dBd	Inc. 6720005272 clamp/brkt	WI-ANT-900MHZ-7DB OMNI NF	N female	6720005236

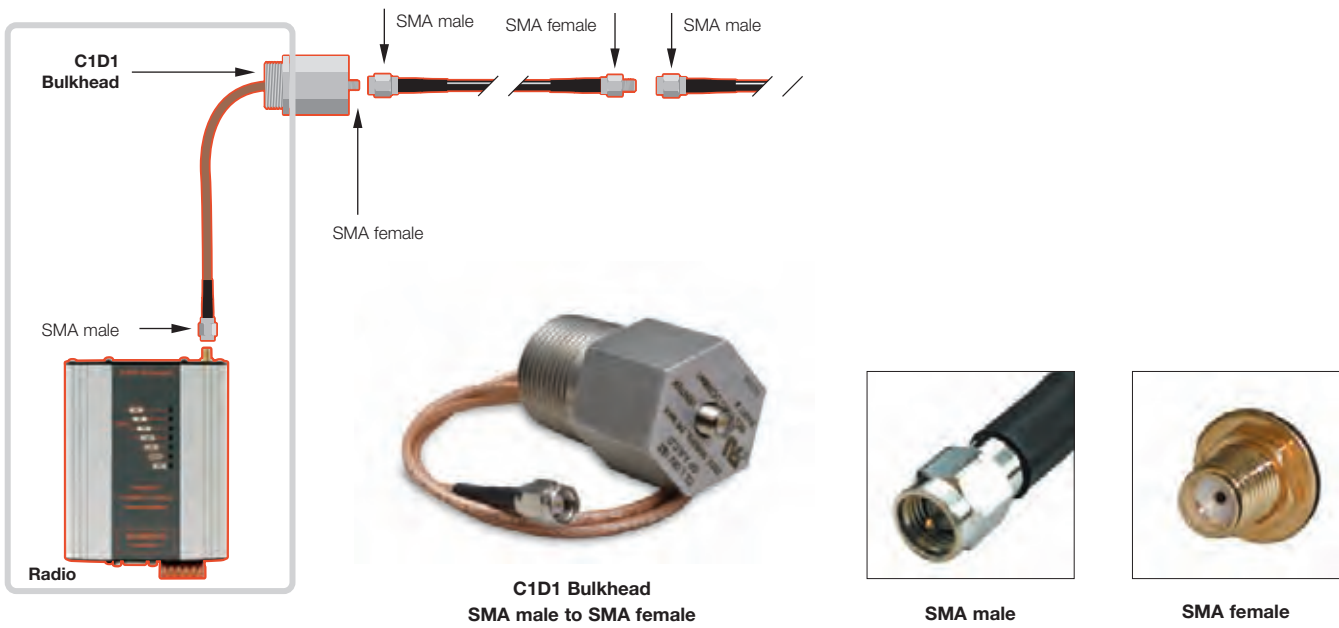
Directional

Gain	Description	Type	Connector Type	Part No.
3 dBd	Inc.6720005266 clamp/brkt	WI-ANT-900MHZ-3DB YAGI NF	N female	6720005219
6.5 dBd	Inc.6720005266 clamp/brkt	WI-ANT-900MHZ-6.5DB-2'YAGI NF	N female	6720005221
10 dBd	Inc.6720005266 clamp/brkt	WI-ANT-900MHZ-10DB-2 YAGI NF	N female	6720005223
12 dBd	Inc.6720005266 clamp/brkt	WI-ANT-900MHZ-12DB-2 YAGI NF	N female	6720005225
14 dBd	Inc.6720005267 clamp/brkt	WI-ANT-900MHZ-14DB-2 YAGI NF	N female	6720005226

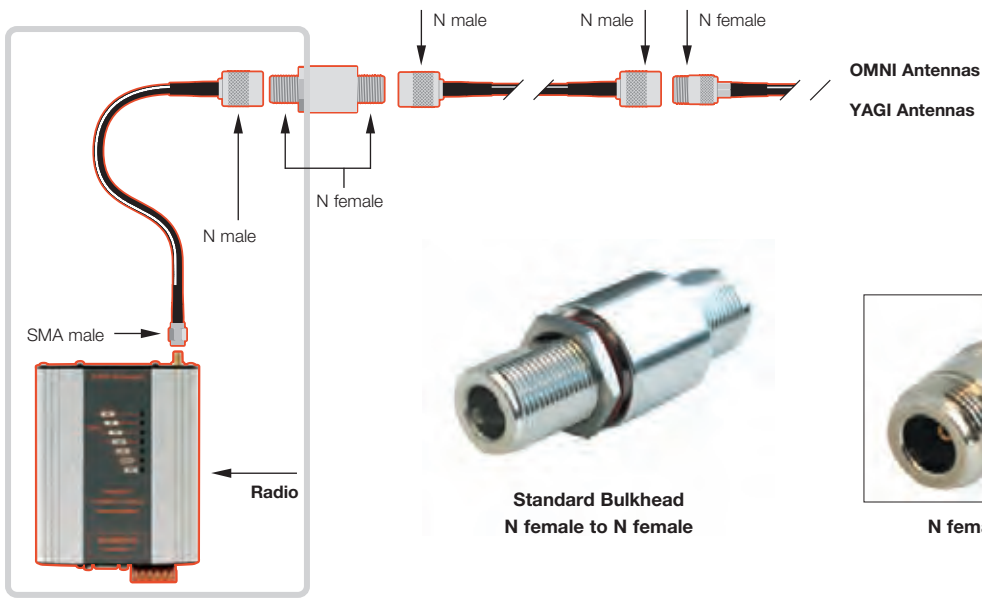
Direct Connect



Enclosure with C1D1 Bulkhead



Enclosure with Standard Bulkhead



Standard Bulkhead
N female to N female

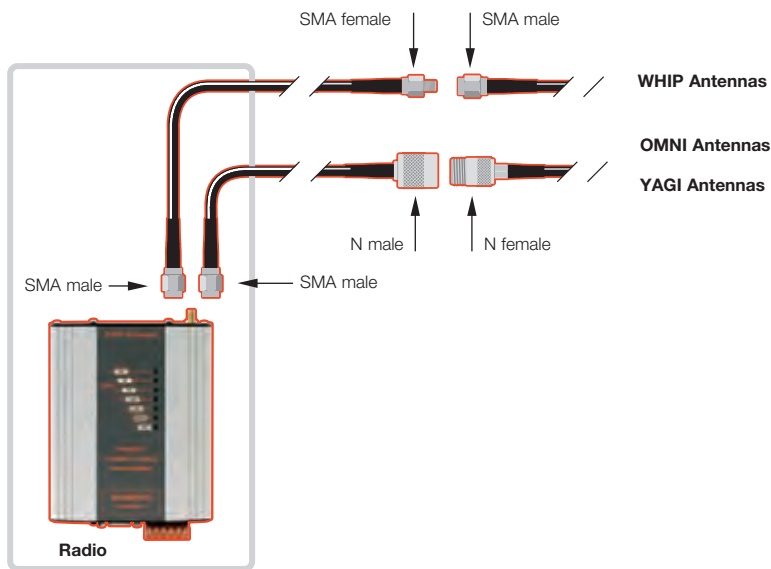


N female



N male

Enclosure without Bulkhead (non-direct)



SMA male



SMA female

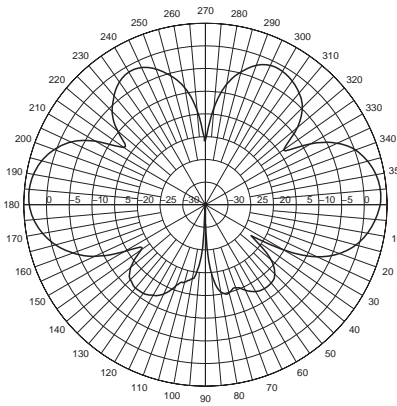


N female

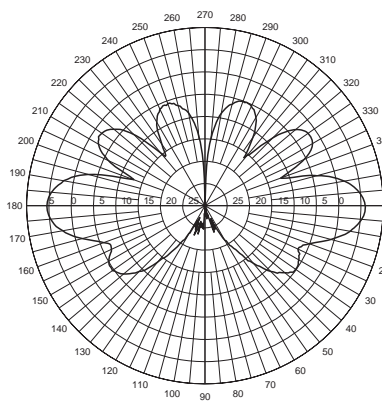


N male

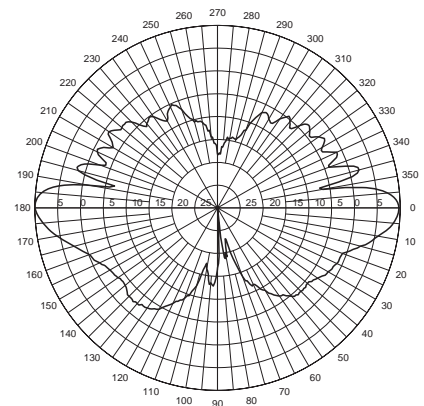
2.4 GHz Omni Antennas



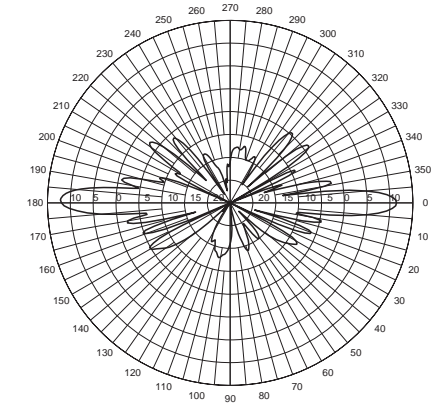
6720005200 Elevation Pattern



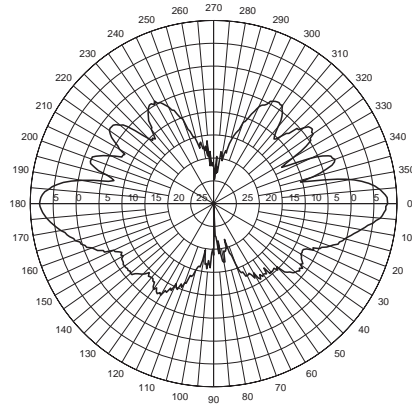
6720005201 Elevation Pattern



6720005202 Elevation Pattern

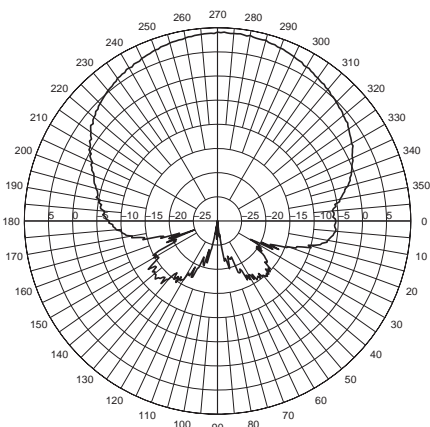


6720005203 Elevation Pattern

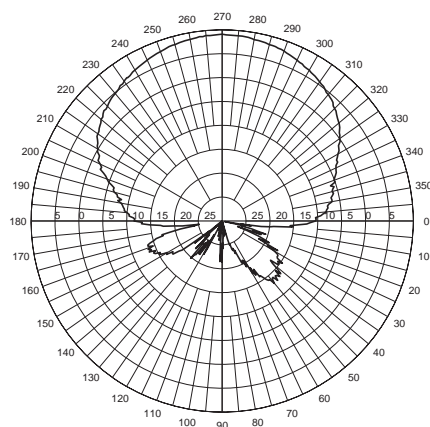


6720005204 Elevation Pattern

2.4 GHz Directional Antennas

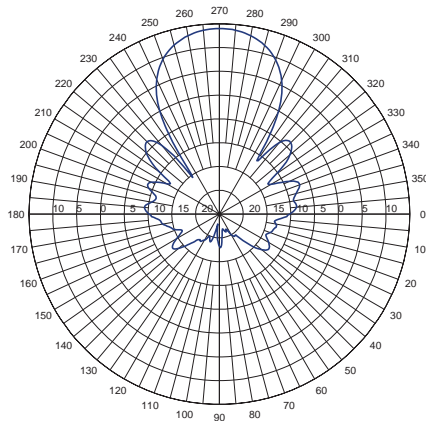


6720005212 Azimuth Pattern

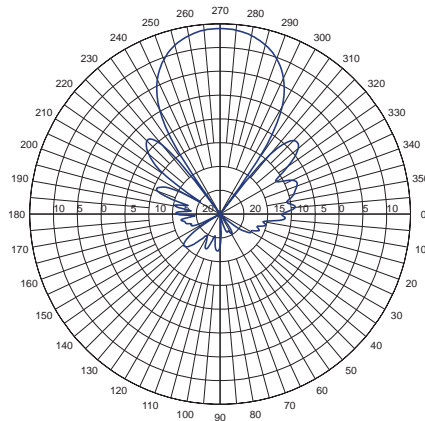


6720005212 Elevation Pattern

2.4 GHz Directional Antennas (continued)

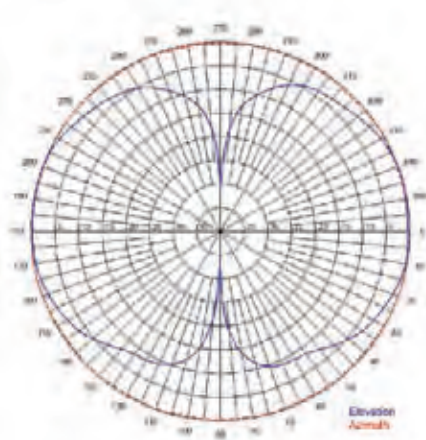


6720005206 Azimuth Pattern

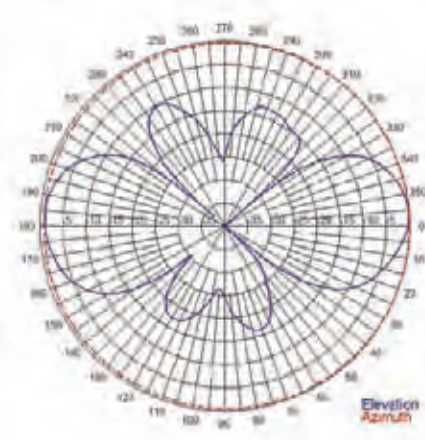


6720005206 Elevation Pattern

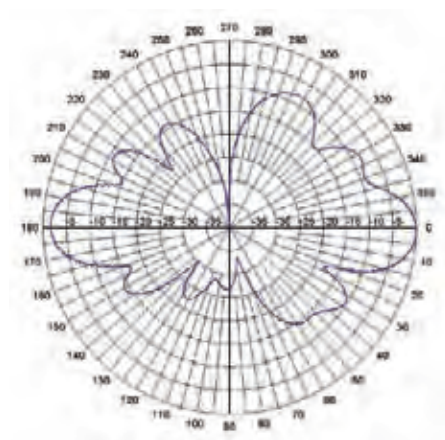
900 MHz Omni Antennas



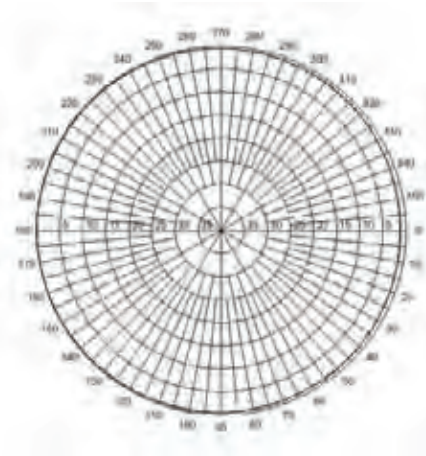
6720005233



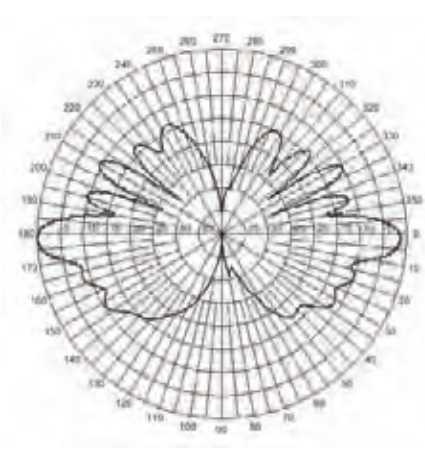
6720005234



6720005235 Elevation Pattern



6720005236 Azimuth Pattern



6720005236 Elevation Pattern

2.4 GHz
Omni
Antennas

WI-ANT-DEMO-2400



WI-ANT-24GHZ-2DB
DUCK SMA-M



WI-ANT-24GHZ-3DB
FOR MAG BASE



Technical Data							
Maximum Power	1 watt	50 watts		200/150/100 watts			
Polarization	Vertical	Vertical, Linear		Vertical			
Nominal Impedance	50 ohms	50 ohms		50 ohms			
VSWR across the band	1.5:1	< 1.5:1		< 1.5:1			
Radome Material	Polyurethane	Polyurethane		Stainless steel			
Termination	N female	N female		N female			
Mounting Base Diameter	N/A	N/A		N/A			
Electrical Specifications							
Frequency Range	2.4 GHz	2.4 GHz		2.2 - 2.9 GHz			
Gain	0dB	2 dBi		3 dBi			
Half Power Vertical Beamwidth	N/A	50°		30°			
Mechanical Specifications							
Antenna Type	Whip	Whip		ISM mobile with WLAN			
Connector Type	SMA male	SMA male		N female			
Antenna Height	54 mm	114.3 mm		5.25" (133.35 mm)			
Bending Moment at Rated Wind	N/A	N/A		N/A			
Max wind load @ rated velocity	N/A	N/A		N/A			
Equivalent Flat Plate Area	N/A	N/A		N/A			
Rated Wind	N/A	N/A		N/A			
Weight lbs (kg)	0.019 (0.009)	0.15 (0.068)		0.25 (0.113)			
Temperature Range	N/A	-40°C to +85°C		-40°C to +70°C			
Ordering Data							
Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
WI-ANT-DEMO-2400	6720005099	WI-ANT-24GHZ-2DB DUCK SMA-M	6720005207	WI-ANT-24GHZ-3DB FOR MAG BASE	6720005208		

2.4 GHz
Omni
Antennas

WI-ANT-24GHZ-8DB
OMNI NF



WI-ANT-24GHZ-10DB
OMNI NF



WI-ANT-24GHZ-12DB
OMNI NF



Technical Data							
Maximum Power	25 watts	25 watts		25 watts		25 watts	
Polarization	Vertical	Vertical		Vertical		Vertical	
Nominal Impedance	50 ohms	50 ohms		50 ohms		50 ohms	
VSWR across the band	< 1.5:1	< 1.5:1		< 1.5:1		< 1.5:1	
Radome Material	UV resistant pultruded fiberglass	UV resistant pultruded fiberglass		UV resistant pultruded fiberglass		UV resistant pultruded fiberglass	
Termination	N female	N female		N female		N female	
Mounting Base Diameter	1.25"	1.25"		1.5"		1.5"	
Electrical Specifications							
Frequency Range	2.4 - 2.48 GHz	2.4 - 2.48 GHz		2.4 - 2.5 GHz		2.4 - 2.5 GHz	
Gain	8 dBi	10 dBi		12 dBi		12 dBi	
Half Power Vertical Beamwidth	13°	9°		7°		7°	
Mechanical Specifications							
Antenna Type	Omni	Omni		Omni		Omni	
Connector Type	N female	N female		N female		N female	
Antenna Height	20.2" (513.1 mm)	36.0" (914.4 mm)		44.0" (1118 mm)		44.0" (1118 mm)	
Bending Moment at Rated Wind	4.4 ft-lbs	14.7 ft-lbs		41 ft-lbs		41 ft-lbs	
Max wind load @ rated velocity	5.2 lbs	10.1 lbs		22.4 lbs		22.4 lbs	
Equivalent Flat Plate Area	.06 ft ²	.11 ft ²		.25 ft ²		.25 ft ²	
Rated Wind	125 mph	125 mph		125 mph		125 mph	
Weight lbs (kg)	0.50 (0.226)	0.65 (0.295)		3.00 (1.400)		3.00 (1.400)	
Temperature Range	-40°C to +70°C	-40°C to +70°C		-40°C to +70°C		-40°C to +70°C	
Ordering Data		Type	Part No.	Type	Part No.	Type	Part No.
		WI-ANT-24GHZ-8DB OMNI NF	6720005204	WI-ANT-24GHZ-10DB OMNI NF	6720005202	WI-ANT-24GHZ-12DB OMNI NF	6720005203

2.4 GHz Directional Antennas

WI-ANT-24GHZ-9DB DFP 2' NF



WI-ANT-24GHZ-10DB YAGI NF



WI-ANT-24GHZ-13DB DFP 2' NF



Technical Data					
Maximum Power	20 watts	5 watts		20 watts	
Polarization	linear	linear		linear	
Nominal Impedance	50 ohms	50 ohms		50 ohms	
VSWR across the band	<1.6: 1	<1.5: 1		<1.6: 1	
Radome Material	UV stable plastic	UV stable plastic		UV stable plastic	
Cable Length and type	12" RG58/U	36" coax		12" RG58/U	
Termination	N female	N female		N female	
Mounting Method	Indoor/outdoor articulating; heavy duty outdoor adjustable	heavy duty outdoor adjustable		Indoor/outdoor articulating; heavy duty outdoor adjustable	
Electrical Specifications					
Frequency Range	2.3 - 2.5 GHz	2.4 - 2.485 GHz		2.3 - 2.5 GHz	
Gain	9 dBi	10 dBi		13 dBi	
Half Power Horizontal Beamwidth	60°	55°		35°	
Half Power Vertical Beamwidth	60°	55°		35°	
Front to Back Ratio	>15 dB	>23 dB		>18 dB	
Mechanical Specifications					
Antenna Type	Directional Panel	Directional Yagi		Directional Panel	
Connector Type	N female	N female		N female	
Dimensions	5.1"x4.7"x1.5"	4.5" x 3"		8.8"x8.1"x1.6"	
Max wind load @ rated velocity	9.3 lbf	5.8 lbf		27.9 lbf	
Equivalent Flat Plate Area		0.060 ft ²			
Rated Wind	125 mph	125 mph		125 mph	
Weight lbs (kg)	0.5 (0.227)	1.0 (0.5)		1.2 (0.544)	
Temperature Range	-40°C to +70°C	-40°C to +70°C		-40°C to +70°C	
Ordering Data					
Type	Part No.	Type	Part No.	Type	Part No.
WI-ANT-24GHZ-9DB DFP 2' NF	6720005212	WI-ANT-24GHZ-10DB YAGI NF	6720005205	WI-ANT-24GHZ-13DB DFP 2' NF	6720005213

2.4 GHz Directional Antennas

WI-ANT-24GHZ-14DB YAGI NF



WI-ANT-24GHZ-18DB DFP 2' NF



Technical Data		
Maximum Power	5 watts	20 watts
Polarization	linear	linear
Nominal Impedance	50 ohms	50 ohms
VSWR across the band	<1.5: 1	<1.6: 1
Radome Material	UV stable plastic	UV stable plastic
Cable Length and type	36" coax	12" RG58/U
Termination	N female	N female
Mounting Method	Heavy duty outdoor adjustable	Indoor/outdoor articulating; heavy duty outdoor adjustable

Electrical Specifications		
Frequency Range	2.4 - 2.485 GHz	2.3 - 2.5 GHz
Gain	14 dBi	18 dBi
Half Power Horizontal Beamwidth	30°	18°
Half Power Vertical Beamwidth	30°	19°
Front to Back Ratio	>30 dB	>25 dB

Mechanical Specifications		
Antenna Type	Directional Yagi	Directional Panel
Connector Type	N female	N female
Dimensions	14" x 3"	15.1"x13.9"x1.9"
Max wind load @ rated velocity	18.3 lbf	85 lbf
Equivalent Flat Plate Area	0.20 ft ²	
Rated Wind	125 mph	125 mph
Weight lbs (kg)	1.0 (0.5)	3.9 (1.77)
Temperature Range	-40°C to +70°C	-40°C to +70°C

Ordering Data	Type	Part No.	Type	Part No.
	WI-ANT-24GHZ-14DB YAGI NF	6720005206	WI-ANT-24GHZ-18DB DFP 2' NF	6720005214

900 MHz
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WI-ANT-900MHZ-0DB
DUCK SMA M



WI-ANT-DPL-DG900-1



WI-ANT-DEMO-900



Technical Data							
Maximum Power	5 watts						
Polarization	vertical, linear						
Nominal Impedance	50 ohms	50 ohms			50 ohms		
VSWR across the band	<2.0:1						
Radome Material							
Termination	SMA male	SMA male			SMA male		
Mounting Base Diameter							
Electrical Specifications							
Frequency Range	806-960 MHz/1710-2170 MHz	900-930 MHz			900-930 MHz		
Gain	0 dBi	-2 dBi			0 dBi		
Half Power Vertical Beamwidth							
Mechanical Specifications							
Antenna Type	Portable Duck	Ground independent whip			1/4 wave whip		
Connector Type	SMA male	SMA male			SMA male		
Antenna Height	6.5" (16.5 cm)	6" (15 cm)			3.5" (9 cm)		
Bending Moment at Rated Wind							
Max wind load @ rated velocity							
Equivalent Flat Plate Area							
Rated Wind							
Weight lbs (kg)							
Temperature Range	-40°C to +85°C						
Ordering Data							
Type	WI-ANT-900MHZ-0DB DUCK SMA M	Part No.	6720005232	Type	WI-ANT-DPL-DG900-1	Part No.	6720005086
				Type	WI-ANT-DEMO-900	Part No.	6720005089

**900 MHz
Omni
Antennas**

WI-ANT-DPL-0-16



**WI-ANT-900MHZ-3DB
STUB MAG**



**WI-ANT-900MHZ-0DB
OMNI NF**



Technical Data									
Maximum Power	10 watts			100 watts			150 watts		
Polarization	vertical			vertical			vertical		
Nominal Impedance	50 ohms			50 ohms			50 ohms		
VSWR across the band	<1.5: 1			<1.5:1					
Radome Material	Fiberglass			Stainless Steel			Fiberglass		
Termination	SMA male			Determined by MAGBASE			N female		
Mounting Base Diameter				Determined by MAGBASE			1-5/16"		
Electrical Specifications									
Frequency Range	853-930 MHz			896-940 MHz			902-928 MHz		
Gain	0 dBi			3 dB			Unity		
Half Power Vertical Beamwidth							75°		
Mechanical Specifications									
Antenna Type	Half wave dipole			5/8 wave over 1/4 wave			Omni		
Connector Type	SMA male			Determined by MAGBASE			N female		
Antenna Height	16" (40 cm)			11" (27.9 cm)			14" (35.6 cm)		
Bending Moment at Rated Wind							1.4 ft-lbs		
Max wind load @ rated velocity							2.3 lbs		
Equivalent Flat Plate Area							0.06 ft ²		
Rated Wind							100 mph		
Weight lbs (kg)	0.5 (0.2)						0.75 (0.34)		
Temperature Range				-40°C to +70°C			-40°C to +70°C		
Ordering Data									
	Type		Part No.	Type		Part No.	Type		Part No.
	WI-ANT-DPL-0-16		6720005080	WI-ANT-900MHZ-3DB STUB MAG		6720005230	WI-ANT-900MHZ-0DB OMNI NF		6720005233

900 MHz
Omni
Antennas

WI-ANT-900MHZ-3DB
OMNI NF



WI-ANT-900MHZ-5DB
OMNI NF



WI-ANT-900MHZ-7DB
OMNI NF



Technical Data							
Maximum Power	150 watts			150 watts			
Polarization	vertical			vertical			
Nominal Impedance	50 ohms			50 ohms			
VSWR across the band							
Radome Material	Fiberglass			Fiberglass			
Termination	N female			N female			
Mounting Base Diameter	1-5/16"			1-5/16"			
Electrical Specifications							
Frequency Range	902-928 MHz			902-928 MHz			
Gain	3 dB			5 dB			
Half Power Vertical Beamwidth	40°			22°			
Mechanical Specifications							
Antenna Type	Omni			Omni			
Connector Type	N female			N female			
Antenna Height	23.25" (59.1 cm)			48" (121.9 cm)			
Bending Moment at Rated Wind	4.7 ft-lbs			14.2 ft-lbs			
Max wind load @ rated velocity	4.3 lbs			8.0 lbs			
Equivalent Flat Plate Area	0.12 ft ²			0.22 ft ²			
Rated Wind	100 mph			100 mph			
Weight lbs (kg)	1.25 (0.57)			1.75 (0.79)			
Temperature Range	-40°C to +70°C			-40°C to +70°C			
Ordering Data							
	Type		Part No.	Type		Part No.	
	WI-ANT-900MHZ-3DB OMNI NF		6720005234	WI-ANT-900MHZ-5DB OMNI NF		6720005235	
	Type		Part No.	Type		Part No.	
	WI-ANT-900MHZ-7DB OMNI NF		6720005236				

900 MHz Directional Antennas

WI-ANT-900MHZ-3DB YAGI NF

WI-ANT-900MHZ-6.5DB-2' YAGI NF

WI-ANT-900MHZ-10DB-2' YAGI NF



Representative Photo

Technical Data					
Maximum Power	200 watts	200 watts		200 watts	
Polarization	Linear	Linear		Linear	
Nominal Impedance	50 ohms	50 ohms		50 ohms	
VSWR Across the band	<1.5:1	<1.5:1		<1.5:1	
Radome Material	Aluminum 6061-T6	Aluminum 6061-T6		Aluminum 6061-T6	
Termination	N female	N female		N female	
Mounting Method	Includes mounting hardware	Includes mounting hardware		Includes mounting hardware	
Electrical Specifications					
Frequency Range	890-960 MHz	890-960 MHz		890-960 MHz	
Gain	3 dBd	6.5 dBd		10 dBd	
Half Power Horizontal Beamwidth	168°	100°		56°	
Half Power Vertical Beamwidth	78°	62°		46°	
Front to Back Ratio	>10 dB	>15 dB		>20 dB	
Mechanical Specifications					
Antenna Type	Directional Yagi	Directional Yagi		Directional Yagi	
Antenna Dimensions (L x W)	13" x 6.8"	13" x 6.8"		24" x 6.8"	
Weight lbs (kg)	1.3 (0.59)	2 (0.9)		6.8 (3.08)	
Cross Sectional Area	0.11 ft ²	0.12 ft ²		0.24 ft ²	
Max wind load @ rated velocity	2.75 lbf	3 lbf		6 lbf	
Rated Wind	125 mph	125 mph		125 mph	
Elements	2	3		7	
Cable Type	LMR400	RG213		RG213	
Cable Length	2 ft.	2 ft.		2 ft.	
Connector Type	N female	N female		N female	
Temperature Range	-40°C to +85°C	-40°C to +70°C		-40°C to +70°C	
Ordering Data					
Type	Part No.	Type	Part No.	Type	Part No.
WI-ANT-900MHZ-3DB YAGI NF	6720005219	WI-ANT-900MHZ-6.5DB-2' YAGI NF	6720005221	WI-ANT-900MHZ-10DB-2' YAGI NF	6720005223

900 MHz Directional Antennas

WI-ANT-900MHZ-12DB-2' YAGI NF

WI-ANT-900MHZ-14DB-2' YAGI NF



Representative Photo



Representative Photo

Technical Data			
Maximum Power	200 watts		200 watts
Polarization	Linear		Linear
Nominal Impedance	50 ohms		50 ohms
VSWR Across the band	<1.5:1		<1.5:1
Radome Material	Aluminum 6061-T6		Aluminum 6061-T6
Termination	N female		N female
Mounting Method	Includes mounting hardware		Includes mounting hardware
Electrical Specifications			
Frequency Range	890-960 MHz		890-960 MHz
Gain	12 dBd		14 dBd
Half Power Horizontal Beamwidth	40°		32°
Half Power Vertical Beamwidth	34°		26°
Front to Back Ratio	>20 dB		>25 dB
Mechanical Specifications			
Antenna Type	Directional Yagi		Directional Yagi
Antenna Dimensions (L x W)	37" x 6.6"		63" x 6.6"
Weight lbs (kg)	2.5 (1.3)		3.5 (1.58)
Cross Sectional Area	0.35 ft ²		0.67 ft ²
Max wind load @ rated velocity	8.75 lbf		16.75 lbf
Rated Wind	125 mph		125 mph
Elements	11		18
Cable Type	RG213		RG213
Cable Length	2 ft.		2 ft.
Connector Type	N female		N female
Temperature Range	-40°C to +70°C		-40°C to +70°C
Ordering Data		Type	Part No.
		WI-ANT-900MHZ-12DB-2' YAGI NF	6720005225
		WI-ANT-900MHZ-14DB-2' YAGI NF	6720005226