

Laird Technologies' Base Station Antennas

Laird Technologies offers an extensive array of base station and in-building wireless antennas. Responding to the ever-increasing variety of frequencies and applications, Laird Technologies offers VHF, UHF, 700 MHz, Cell/PCS dual-band and GSM/UMTS tri-band variations. Leading the industry with the internally matched, fully welded, gold anodized Yagi, all Laird Technologies base station antennas represent high performance and long-lasting value. For example, Laird Technologies omni-directional models are the antennas of choice for research bases in Antarctica.



Model	Frequency Range	Tuned Frequency	Gain	Length	Maximum Power
VHF Models					
FG1400	140-144 MHz	142 MHz	Unity	92"	150 watts
FG1403	140-144 MHz	142 MHz	3 dBd	107"	150 watts
FG1440	144-148 MHz	146 MHz	Unity	92"	150 watts
FG1443	144-148 MHz	146 MHz	3 dBd	107"	150 watts
FG1480	148-152 MHz	150 MHz	Unity	68"	200 watts
FG1483	148-152 MHz	150 MHz	3 dBd	107"	200 watts
FG1520	152-156 MHz	154 MHz	Unity	68"	200 watts
FG1523	152-156 MHz	154 MHz	3 dBd	107"	200 watts
FG1560	156-162 MHz	159 MHz	Unity	68"	200 watts
FG1563	156-162 MHz	159 MHz	3 dBd	107"	200 watts
FG1620	162-168 MHz	165 MHz	Unity	68"	200 watts
FG1623	162-168 MHz	165 MHz	3 dBd	107"	200 watts
FG1683	168-174 MHz	171 MHz	3 dBd	107"	200 watts
FG2200	220-225 MHz	222.5 MHz	Unity	68"	200 watts
FG2203	220-225 MHz	222.5 MHz	3 dBd	107"	200 watts

UHF Models					
FG3603	360-380 MHz	370 MHz	3 dBd	44"	200 Watts
FG3803	380-406 MHz	385 MHz	3 dBd	44"	200 Watts
FG4060	406-416 MHz	411 MHz	Unity	26"	200 Watts
FG4063	406-416 MHz	411 MHz	3 dBd	44"	200 Watts
FG4065	406-416 MHz	411 MHz	5 dBd	76"	200 Watts
FG4100	410-430 MHz	420 MHz	Unity	26"	200 Watts
FG4103	410-420 MHz	415 MHz	3 dBd	44"	200 Watts
FG4203	420-430 MHz	425 MHz	3 dBd	44"	200 Watts
FG4205	420-430 MHz	425 MHz	5 dBd	76"	200 Watts
FG4300	430-450 MHz	440 MHz	3 dBd	26"	200 Watts
FG4303	430-440 MHz	435 MHz	3 dBd	44"	200 Watts
FG4305	430-440 MHz	435 MHz	5 dBd	76"	200 Watts
FG4403	440-450 MHz	445 MHz	3 dBd	44"	200 Watts
FG4405	440-450 MHz	445 MHz	5 dBd	76"	200 Watts
FG4500	450-470 MHz	460 MHz	Unity	26"	200 Watts
FG4503	450-460 MHz	455 MHz	3 dBd	44"	200 Watts
FG4505	450-460 MHz	455 MHz	5 dBd	76"	200 Watts
FG4505W	450-470 MHz	460 MHz	5 dBd	76"	200 Watts

Fiberglass Omnidirectional

- Includes VHF through 2.4 GHz models
- High performance and reliable collinear J-pole design surrounded by durable high density fiberglass
- Durable gold anodized sleeve and cap will not oxidize
- Custom tuning available
- FedEx/UPS shippable on most models



Technical Data - Product Features & Information

- **VSWR:**
<2:1 at resonance
- **Maximum Power:**
200 watts - Most VHF and UHF and above models.
- **Impedance:**
50 ohms, Models with DC continuity.
- **Mounting Sleeve:**
Heavy wall, gold anodized 1 1/4" aluminum.
- **Radiator:**
Precision copper clad elements sealed in white ultraviolet-inhibiting fiberglass radome.
- **Mounts to:**
See optional mounting kits listed.
- **DC Grounded:**
All models excluding FG24005, FG24008, and FG8063WPTNF.
- **Vertical Beam Width:**

Unity	3 dBd	5 dBd	6 dBd	7 dBd
75	33	20	17	14
- **Antenna Weight:**
VHF 3 dBd & UHF 7 dBd = 8 lbs.
All others = 6 lbs. (or less)
- **Termination:**
Recessed type "N" female connector.
- **Wind Survival:**
125 M.P.H.
- **Polarization:**
Vertical Polarization.



FM1



FM2



FM3



FM3W



FMW4

Model	Frequency Range	Tuned Frequency	Gain	Length	Maximum Power
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UHF Models

FG4507	450-460 MHz	455 MHz	7 dBd	107"	200 Watts
FG4603	460-470 MHz	465 MHz	3 dBd	44"	200 Watts
FG4605	460-470 MHz	465 MHz	5 dBd	76"	200 Watts
FG4607	460-470 MHz	465 MHz	7 dBd	107"	200 Watts
FG4705	470-480 MHz	475 MHz	5 dBd	76"	200 Watts
FG4900	490-512 MHz	501 MHz	Unity	26"	200 Watts
FG4907	490-500 MHz	495 MHz	7 dBd	107"	200 Watts
FG5003	500-512 MHz	506 MHz	3 dBd	44"	200 Watts
FG5007	500-512 MHz	506 MHz	7 dBd	107"	200 Watts

700 - 900 MHz Models

FG7463	746-796 MHz	771 MHz	3 dBd	23 1/2"	200 Watts
FG7466	746-796 MHz	771 MHz	6 dBd	61"	200 Watts
FG8060	806-866 MHz	813.5 MHz	Unity	15"	200 Watts
FG8063	806-866 MHz	813.5 MHz	3 dBd	25"	200 Watts
FG8063WPTNF	806-896 MHz	851 MHz	3 dBd	29"	200 Watts
FG8066	806-866 MHz	813.5 MHz	6 dBd	65"	200 Watts
FG8240	824-896 MHz	835 MHz	Unity	15"	200 Watts
FG8243	824-896 MHz	835 MHz	3 dBd	25"	200 Watts
FG8246	824-896 MHz	835 MHz	6 dBd	65"	200 Watts
FG8693	869-902 MHz	882 MHz	3 dBd	25"	200 Watts
FG8960	896-940 MHz	898 MHz	Unity	15"	200 Watts
FG8963	896-940 MHz	898 MHz	3 dBd	25"	200 Watts
FG8966	896-940 MHz	898 MHz	6 dBd	65"	200 Watts
FG9023	902-928 MHz	915 MHz	3 dBd	25"	200 Watts
FG9026	902-928 MHz	915 MHz	6 dBd	65"	200 Watts
FG9283	928-970 MHz	930 MHz	3 dBd	25"	200 Watts
FG9360	936-970 MHz	953 MHz	Unity	15"	200 Watts
FG9286	928-970 MHz	930 MHz	6 dBd	65"	200 Watts
FG9366	936-970 MHz	953 MHz	6 dBd	65"	2 00 Watts

2.4 GHz Models

FG24005	2400-2500 MHz	2450 MHz	5 dBi	14"	100 Watts
FG24008	2400-2500 MHz	2450 MHz	8 dBi	24"	100 Watts

Dual Band Model

FG821/18503	821-896 MHz	858.5 MHz	Unity	14"	100 watts
	1850-1990 MHz	1920 MHz	3 dBd		

Fiberglass Base Antennas Mounting Options

FM1	Stainless Steel U-Bolt Mount (2)
FM2	Fiberglass Mounting Bracket (2)
FM3	Heavy Duty Large Mount (2)
FM3W	Heavy Duty Large Mount w/weld (2)
FMS9	9 Inch Standoff (2)
FMW4	4 Inch Wall Mount (2)

Fiberglass Base Antenna Accessories

SP3-90-6-BFF	Bulkhead Surge Protector, Bulkhead N Fem to N Fem, 6KA Discharge, .4dB IL, 3 GHz
SP3-90-6-BFM	Bulkhead Surge Protector, Bulkhead N Fem to N Male, 6KA Discharge, .4dB IL, 3 GHz
SP6-230-BFF	DC-6GHz Bulkhead Surge Protector, Bulkhead N Fem to N Fem
SP6-230-BFM	DC-6GHz Bulkhead Surge Protector, Bulkhead N Fem to N Male
CCT213	Heavy Duty Crimp Tool
CN400	Type N Male
R400100	100' Spool High Performance ATX400
R400500	500' Spool High Performance ATX400
PT40025NN	Pigtail 25 ft. ATX400 N to N
PT40050NN	Pigtail 50 ft. ATX400 N to N
PT40075NN	Pigtail 75 ft. ATX400 N to N
PT400100NN	Pigtail 100 ft. ATX400 N to N
IASFST	36 ft. Roll of MOCAP Installation Tape
IASFST10	Six pack of 10" strips of MOCAP Installation Tape