# Land Mobile Radio Antenna

SOLUTIONS





# Innovative **Technology** for a **Connected** World

## **About Laird Technologies**

Laird Technologies designs and manufactures customized, performance-critical products for wireless and other advanced electronics applications.

The company is a global market leader in the design and supply of electromagnetic interference (EMI) shielding, thermal management products, mechanical actuation systems, signal integrity components, and wireless antennae solutions, as well as radio frequency (RF) modules and systems.

Laird Technologies partners with its customers to customize product solutions for applications in many industries including:

- Telecommunications
- Mobile Communications
- Network Equipment
- Automotive
- Industrial & Instrumentation
- Aerospace
- Defense
- Medical
- Consumer Electronics
- Food & Beverage

Laird Technologies offers customers unique product solutions, dedication to research and development, as well as a seamless network of manufacturing and customer support facilities across the globe.



## A Brief Introduction to Land Mobile Radio Antennas

Land Mobile Radio (LMR) antennas are utilized in two-way wireless communication systems. They ensure interoperable communications in situations like emergencies, where the user can either be in a vehicle (mobile) or on foot (portable). These antennas operate over a wide range of frequencies, and are ideal for simultaneous data transmission to the connected networks of multiple users in government, public safety, and commercial applications.

#### World-Leading Solutions

As the industry leader in antenna products, Laird Technologies produces antennas in a diverse number of styles while ensuring maximum efficiency, power handling, and high-performance. To meet its customers' specific requirements, select antennas can be individually tuned to a specific frequency.

#### Depend on Laird Technologies

Laird Technologies' LMR antennas are the industry standard for public safety agencies, fleet, and transportation networks. Established in-market presence and innovative molding techniques, with verified platforms and a variety of connection options adds to the reputation for rugged reliability in hazardous situations and harsh environments for these antennas. Benefits include:

- High durability
- Heavy-duty design
- Excellent quality and RF performance
- Easy installation

# Portable Radio ANTENNAS

Portable radio antennas are used for wireless two-way communication by civil service, military, construction, and transportation organizations, with many custom applications.

Laird Technologies' portable radio antennas are the world standard for reliable, flexible antennas. Established in-market presence and innovative molding techniques, with verified platforms and a variety of connection options adds to the reputation for rugged reliability in hazardous situation and harsh environments for these antennas. Each antenna can be individually tuned to frequency to ensure optimum performance.



As the industry leader in radio antenna products, Laird Technologies produces antennas in a diverse number of styles. To ensure maximum performance, radio antennas can be individually tuned to frequency, while delivering high-performance in any environment.



## Low-band 27 to 88 MHz

| FAMILY     | FREQUENCY<br>RANGES* | BANDWIDTH    | BN | BNX | нт | KR | MD | MX | MXI | PL | SF | SFJ | SFU | SM | SMI | SMV | TN | TNX | LENGTH*         | NOTES  |
|------------|----------------------|--------------|----|-----|----|----|----|----|-----|----|----|-----|-----|----|-----|-----|----|-----|-----------------|--|
| A Series   | 27 - 88 MHz          | 6 - 12 MHz * | •  |     | •  | •  |    | •  |     | •  |    |     |     |    |     |     | •  |     | 6" - 10" *      | Lower cost than other low band antennas, uses rugged heat shrink tubing for radome |
| EXL Series | 25 - 88 MHz          | 4 - 12 MHz * |    | •   | •  | •  |    | •  |     |    |    |     |     |    |     |     |    | •   | 10.75" -11.1" * | Field tunable, more robust than A Series<br>(used molded/machined radome)          |
| EXW Series | 30 - 88 MHz          | 58 MHz       |    | •   |    |    |    |    |     |    |    |     |     |    |     |     |    | •   | 12"             | Broadbanded, most robust of the low band portable radio antennas                   |

## VHF 118 to 225 MHz



| FAMILY     | FREQUENCY<br>RANGES* | BANDWIDTH     | BN | BNX | нт | KR | MD | MX | MXI | PL | SF | SFJ | SFU | SM | SMI | SMV | TN | TNX | LENGTH*       | NOTES   |
|------------|----------------------|---------------|----|-----|----|----|----|----|-----|----|----|-----|-----|----|-----|-----|----|-----|---------------|---|
| DR Series  | 118 - 225 MHz        | 107 MHz       | •  |     |    |    |    | •  |     |    | •  |     |     |    |     |     |    |     | 19"           | Broadbanded, uses rugged heat shrink tubing for radome, very flexible |
| EXB Series | 118 - 225 MHz        | 4 - 13 MHz *  | •  | •   | •  | •  | •  | •  | •   | •  | •  | •   | •   | •  |     |     | •  | •   | 4.1" - 7.8" * | Industry standard, wide range of connector options available          |
| SXB Series | 136 - 174 MHz        | 11 - 13 MHz * |    |     |    |    |    | •  |     |    | •  |     | •   |    |     |     |    |     | 5.5"          | Lowest cost of the VHF antennas, rigid (uses sheath)                  |
| EXH Series | 145 - 175 MHz        | 10 MHz        | •  |     |    | •  | •  | •  | •   |    | •  |     | •   | •  | •   | •   | •  |     | 10.5"         | High gain   |
| EXR Series | 136 - 225 MHz        | 10 MHz        | •  | •   |    |    |    | •  | •   |    |    |     | •   |    | •   | •   |    |     | 7" - 8"       | Flexible, rugged  |
| EXS Series | 118 - 225 MHz        | 4 - 15 MHz*   | •  | •   | •  | •  |    | •  | •   |    | •  | •   | •   | •  | •   | •   | •  | •   | 3.3" - 5.10"  | Shorter, less performance   |
| EXW Series | 136 - 240 MHz        | 5 - 26 MHz*   |    | •   |    |    |    | •  |     |    |    |     |     |    |     |     |    | •   | 8.75"         | High gain, flexible, low cost   |
| TS Series  | 118 - 174 MHz        | 56 MHz        | •  |     | •  | •  |    | •  |     |    |    |     |     |    |     |     | •  |     | 17"           | High gain, broadbanded  |
| V Series   | 118 - 225 MHz        | 4 - 15 MHz*   | •  |     | •  | •  |    | •  |     |    |    |     |     |    |     |     | •  |     | 17"           | Low cost, flexible  |

## UHF 300 to 512 MHz



| FAMILY     | FREQUENCY<br>RANGES* | BANDWIDTH    | BN | BNX | нт | KR | MD | MX | MXI | PL | SF | SFJ | SFU | SM | SMI | SMV | TN | TNX | LENGTH*       | NOTES                                      |
|------------|----------------------|--------------|----|-----|----|----|----|----|-----|----|----|-----|-----|----|-----|-----|----|-----|---------------|--|
| EXC Series | 308 - 512 MHz        | 6 - 42 MHz*  | •  | •   |    | •  | •  | •  | •   |    | •  |     | •   | •  | •   | •   | •  | •   | 5.9" - 7"     | Low cost, flexible                         |
| EXD Series | 308 - 512 MHz        | 6 - 42 MHz*  | •  | •   | •  | •  | •  | •  | •   |    | •  | •   | •   | •  | •   | •   | •  | •   | 2.8" - 4.1"   | Shorter, less performance                  |
| EXR Series | 308 - 512 MHz        | 6 - 42 MHz*  | •  |     |    | •  |    | •  |     |    |    |     |     |    |     |     | •  |     | 6.62" - 6.95" | High gain, flexible                        |
| EXW Series | 400 - 512 MHz        | 12 MHz       |    | •   |    |    |    |    |     |    |    |     |     |    |     |     |    | •   | 9"            | High gain, flexible, low cost              |
| G Series   | 400 - 512 MHz        | 20 - 42 MHz* | •  |     |    |    |    |    |     |    |    |     |     |    |     |     | •  |     | 10"           | High gain, flexible, broadbanded           |
| SXD Series | 420 - 470 MHz        | 30 MHz       |    |     |    |    |    | •  |     |    | •  |     | •   |    |     |     |    |     | 3.5"          | Low profile, rigid (uses sheath), low cost |

## Trunking and SMR Apps 806 to 960 MHz



| FAMILY          | FREQUENCY<br>RANGES* | BANDWIDTH    | BN | BNX | нт | KR | MD | мх | MXI | PL | SF | SFJ | SFU | SM | SMI | SMV | TN | TNX | LENGTH*      | NOTES                        |
|-----------------|----------------------|--------------|----|-----|----|----|----|----|-----|----|----|-----|-----|----|-----|-----|----|-----|--------------|------------------------------|
| EXC Series 806  | 806 - 866 MHz        | 60 MHz       | •  | •   | •  | •  | •  | •  | •   |    | •  |     | •   | •  | •   | •   | •  |     | 3.7" - 4.6"  | Low cost, rugged, flexible   |
| EXC Series 821  | 821 - 902 MHz        | 81 MHz       | •  | •   |    |    | •  |    |     |    |    |     |     |    |     |     |    | •   | 3.7" - 4.6"  | Low cost, rugged, flexible   |
| EXC Series 902  | 902 - 960 MHz        | 58 MHz       |    |     |    |    |    |    |     |    | •  | •   | •   | •  | •   | •   | •  |     | 3.5" - 3.65" | Low cost, rugged, flexible   |
| EXE Series      | 806 - 960 MHz        | 19 - 58 MHz* | •  | •   |    |    | •  |    |     |    | •  |     | •   | •  |     |     | •  | •   | 8" - 8.9"    | High gain, rigid             |
| EXP Series 806  | 806 - 869 MHz        | 63 MHz       |    |     |    |    | •  |    |     |    | •  | •   | •   |    |     |     |    |     | 6.9"         | High gain, flexible, rugged  |
| EXP Series 902  | 896 - 940 MHz        | 44 MHz       |    |     |    |    | •  |    |     |    | •  | •   | •   |    |     |     |    |     | 6.9"         | High gain, flexible, rugged, |
|                 |                      |              |    |     |    |    |    |    |     |    |    |     |     |    |     |     |    |     |              | *SMS Connector               |
| EXR Series      | 806 - 960 MHz        | 58 - 81 MHz* | •  |     |    |    |    |    |     |    |    |     |     |    |     |     | •  |     | 9.16" - 9.5" | High gain, flexible          |
| EXR Series 1850 | 1850 - 1970 MHz      | 120 MHz      | •  |     |    |    |    |    |     |    |    |     |     |    |     |     | •  |     | 9.25" - 9.5" | High gain, flexible          |
| EXS Series      | 806 - 960 MHz        | 58 - 60 MHz* |    |     |    |    | •  |    |     |    | •  | •   | •   | •  |     |     | •  |     | 2.25"        | *SMS connector               |

## 2.4 GHz



| FAMILY     | FREQUENCY<br>RANGES* | BANDWIDTH | LENGTH*     | NOTES  |
|------------|----------------------|-----------|-------------|--|
| EXE Series | 2400 - 2500 MHz      | 100 MHz   | 8"          | Covered TNX - 1/2 wave, high gain, rigid, broadbanded          |
| EXC Series | 2400 - 2500 MHz      | 100 MHz   | 2.5" - 4"   | SMA, Rev Pol TNC, TNC - 1/4 wave, rigid, low cost, broadbanded |
| EXR Series | 2400 - 2500 MHz      | 100 MHz   | Right Angle | Rev Pol SMA, SMA, Rev Pol BNC - 1/2 wave, broadbanded          |
| EXR Series | 2400 - 2500 MHz      | 100 MHz   | Right Angle | Rev Pol TNC - 1/4 wave, broadbanded, high gain                 |
| EXS Series | 2400 - 2500 MHz      | 100 MHz   | 4"          | Rev Pol SMA - 1/4 wave, lower gain, low cost, low profile      |
| WRX Series | 2400 - 2500 MHz      | 100 MHz   | 4"          | TNC - 1/2 wave   |

 $<sup>^{\</sup>star}$  varies by specific PN's



# Mobile Radio ANTENNAS

Mobile radio antennas are used for wireless two-way communication with taxi dispatch, police, municipal, etc.; with many custom applications. Along with the use of mounting kits, these antennas can be mounted to any vehicle that is in any environment.

Laird Technologies' mobile radio antennas are the industry standard for public safety agencies, fleet and transportation networks. The company designs and manufactures a wide variety of mobile antennas with a multitude of mounting options.

As the industry leader in mobile radio antenna products, Laird Technologies produces antennas in a diverse number of styles that can be mounted to any vehicle for any use. To ensure maximum performance, mobile radio antennas can be individually tuned to frequency, while delivering high-performance in any environment.



## **Low Band**

| CATEGORY | FAMILY   | ITEM       | FREQUENCY<br>RANGES | BANDWIDTH   | LENGTH         | NOTES   |
|----------|----------|------------|---------------------|-------------|----------------|---|
| Whip     | C-Coil   | C(B)**(S)  | 26.75 - 50 MHz      | 3 - 7 MHz * | 52.5" - 67.5"* | Available in white or black, with or without shock spring |
| vvnip    | Genesis™ | CW(B)**(S) | 26.75 - 48 MHz      | 3 - 9 MHz * | 54" - 68" *    | Available in write or black, with or without shock spring |

### **VHF**

| CATEGORY    | FAMILY             | ITEM                      | FREQUENCY<br>RANGES | BANDWIDTH        | LENGTH         | NOTES  |
|-------------|--------------------|---------------------------|---------------------|------------------|----------------|--|
|             | Phantom®           | TRA(B)2100                | 210 - 225 MHz       | 15 MHz           | 2.9"           | NMO only   |
| Low Profile | Phantom® — Tunable | TRA(B)T****(P)            | 142 - 225 MHz       | 15 - 18 MHz*     | 2.9" - 3.5"*   | NMO or permanent mount (P-mount only available on select models)                             |
|             | Phantom Elite®     | ETRA(B)****               | 144 - 225 MHz       | 4 - 15 MHz*      | 2.375"         | NMO only (with NMO adaptor); available in black or white                                     |
|             | A-Base             | A(B)***(S)                | 118 - 896 MHz       | Single Frequency | _              | Available with spring, field tunable, dual-band available                                    |
|             | QW (Quarterwave)   | QW(B)***                  | 136 - 970 MHz       | 8 - 15 MHz*      | 12.5" - 22"*   | Available in field tunable model   |
| Whip        | B-Coil             | B(B)****(W)(N)<br>(S)(SG) | 66 - 225 MHz        | 4 - 15 MHz*      | 23" - 59"*     | Tunable, available with spring, certain frequencies available in no ground plane or wideband |
|             | C-Coil             | C(B)****(S)(SG)           | 27 - 50 MHz         | 3 - 7 MHz*       | 52.5" - 67.5"* | Available in chrome or black; available as field tunable;                                    |
|             | Genesis™           | CW(B)****(S)(SG)          | 27 - 470 MHz        | 3 - 30 MHz *     | 18" - 68" *    | available with spring and spring guard   |
| GPS-based   | Survivor™          | GPSD(L)(S)****(PL)P       | 137 - 170 MHz       | 10 - 24 MHz      | 7.25" - 22.4"* | Available with magnetic base   |





## **UHF & SHF**









| CATEGORY    | FAMILY                        | ITEM                     | FREQUENCY<br>RANGES                                | BANDWIDTH *  | LENGTH               | NOTES   |
|-------------|-------------------------------|--------------------------|--|--|----------------------|---|
|             | Phantom® – AVL Style          | DTRA****(P)              | 806 - 960 MHz                                      | 26 - 75 MHz*   | 1.25"                | Available in P-mount  |
|             | Phantom®                      | TRA(B)****(N)(P)         | 300 - 6.0 GHz                                      | Varies by specific PN                                | 3.4" or 2.7"         | Available as NMO or P-mount; available in black or  |
| Low Profile | Phantom Elite®                | ETRA(B)****(N)(P)        | 410 - 2500 MHz                                     | 15 - 110 MHz*  | 2.7" - 4.025"*       | white; some models available with no ground plane,<br>some frequencies available as dual-band; other options<br>may be available (wall/ceiling mount) |
|             | Discadoo®                     | DISC(W)****(M)<br>(PNSM) | 760 - 2500 MHz                                     | 60 MHz - 1 GHz                                       | 0.75"                | Available as NMO or P-mount w/ adhesive   |
|             | GPS only                      | GPS********              | 1575.42 MHz  | Single Frequency                                     | 0.43" - 1.875"*      | Various form factors available; available in NMO mount, trunk mount, add on bracket, magnetic mount, adhesive mount, and standard AVL                 |
|             | Dual-band & Tri-band GPS AVL  | GPS(D)(T)****P           | 450 - 2500 MHz                                     | 20 - 100 MHz*  | 1.25" - 4.125"*      | _   |
|             | Survivor™                     | GPSDS****(P)(LP)(G)      | 380 - 960 MHz                                      | 60 - 110 MHz *                                       | 6" - 26.9"*          | Available with SS rod or "rubber duck" style antenna; available with mag mount option   |
| GPS         | Internal Mercury <sup>™</sup> | GPST(3/5)I***/****       | 824 - 960 MHz /<br>1710 - 1990 MHz/<br>1575.42 MHz | 72 - 80 MHz*/<br>130 - 170 MHz*/<br>Single Frequency | -                    | -   |
|             | External Mercury™             | GPST3E824/18503          | 824 - 896 MHz/1850 -<br>1990 MHz/1575.42 MHz       | 72 MHz / 140 MHz/<br>Single Frequency                | -                    | _   |
|             | Roof Mount Tri-band           | GPSTR***/****            | 824 - 896 MHz/<br>1850 - 1990 MHz/<br>1575.42 MHz  | 72 MHz/140 MHz/<br>Single Frequency                  | _                    | Available in most connector options   |
|             | A-Base                        | A(B)****C(S)             | 450 - 2500 MHz                                     | 20 - 110 MHz*  | -                    | Available with spring and close coil collinear, dual-band available   |
|             | QW (Quarterwave)              | QW(B)***                 | 406 - 970 MHz                                      | 20 - 110 MHz*  | 3" - 24"*            | Available in field tunable model, 806 to 970 MHz model available with open coil flexible  |
| Whip        | B-Coil                        | B(B)****(N)(S)           | 406 - 970 MHz                                      | 20 - 110 MHz*  | 4.875" - 39.5"*      | Tunable, available with spring, available with closed coil collinear, certain frequencies available in no ground plane                                |
|             | C-Coil                        | C(B)***/***C(S)          | 144 - 174/ 440 - 470 MHz                           | 24 - 30 MHz*   | 35.5" - 37.5"*       | Closed coil collinear, available with spring, dual-band or single band available  |
|             | Elevated Feed                 | E(B)****(C)              | 450 - 970 MHz                                      | 20 - 110 MHz*  | 25.375" -<br>40.25"* | _   |
|             | 3-Port                        | -                        | 2.4/5.0 GHz  | -  |                      |   |
| MIMO        | 2-Port w/ GPS                 | -                        | 2.4/5.0 GHz  | -  | 1.5" height          | Available as either dual band element or single band; also various cable and connector configs available  |
|             | 1 D . (CDC                    |                          | 2.4/5.0.611  |  |                      | also various casic and connector comigs available   |

<sup>\*</sup> varies by specific PN's

1-Port w/ GPS

2.4/5.0 GHz

<sup>†</sup> Inquire about various models/options available

# **Dispatch** BASESTATION

Dispatch base station antennas offer unmatched, maximum null fill to ensure consistent gain close to the tower and extend out toward the horizon. These antennas are used mostly for public safety applications or private networks. The dispatch center coordinates and controls the dispatch units and tracks the location and ID of the dispatched units.

Laird Technologies' world class engineering teams utilize proprietary, state-of-the-art design tools to create dispatch base station antenna products that maximize total system performance and user satisfaction. These antennas consistently offer the industry's best value proposition.



• 4 Bay Dipole Array

#### **VHF**

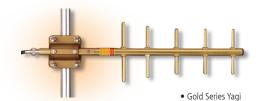
| CATEGORY          | FAMILY                        | ITEM        | FREQUENCY<br>RANGES* | BANDWIDTH*   | GAIN (dBi) | LENGTH*      | MAXIMUM<br>POWER (WATTS) | NOTES                                   |
|-------------------|-------------------------------|-------------|----------------------|--------------|------------|--------------|--------------------------|---|
|                   | Fiberglass                    | FG****      | 140 - 260 MHz        | 4 - 6 MHz*   | 2-7        | 68" - 107"*  | 150-200                  | _                                       |
| Omnidirectional   | Voyager®                      | VG****      | 132 - 225 MHz        | 18 - 25 MHz* | 4-8        | 55" - 102"   | 150-200                  |   |
|                   | Ringo                         | CR(S)(X)*** | 150 - 222 MHz        | 2 - 24 MHz*  | 4-9        | 30" - 162"*  | 150-200                  |   |
|                   | Gold/Black Series<br>(Rugged) | Y(B)****    | 136 - 250 MHz        | 14 - 30 MHz* | 11-13      | 41.5" - 72"* | 150-200                  | _                                       |
| Directional Yagis | Silver Series<br>(Economy)    | YS***       | 136 - 250 MHz        | 9 - 30 MHz*  | 11-13      | 41.5" - 72"* | 150-200                  | _                                       |
| Directional ragio | Heavy Duty PLC                | PLC****(N)  | 129 - 220 MHz        | 2 - 8 MHz*   | 11-13      | 48" - 161"*  | 400                      | _                                       |
|                   | Economy P                     | P***        | 130 - 222 MHz        | 2 - 4.5 MHz* | 10         | 36" - 44"*   | 400                      |   |
|                   | Lowband                       | PLHC***(N)  | 30 - 75 MHz          | 45 MHz       | 7-11       | 42" - 136"*  | -                        |   |
|                   | 2 Bays                        | YDA***2     | 150 - 174 MHz        | 24 MHz       | 7          | -            | -                        | Single or replacement dipoles available |
| Dipole Arrays     | 4 Bays                        | YDA***4     | 136 - 174 MHz        | 14 - 24 MHz* | 10-13      | -            | -                        | Single or replacement dipoles available |
|                   | Broadband Arrays              | ****5       | 140 - 222 MHz        | 10 - 12 MHz* | 7-13       | 132" - 504"  | 500                      | _                                       |

## **UHF & SHF**

| CATEGORY          | FAMILY                        | ITEM           | FREQUENCY<br>RANGES* | BANDWIDTH*    | GAIN (dBi) | LENGTH*               | MAXIMUM<br>POWER (WATTS) | NOTES                                   |
|-------------------|-------------------------------|----------------|----------------------|---------------|------------|-----------------------|--------------------------|---|
|                   | Fiberglass                    | FG****         | 360 - 2400 MHz       | 10 - 90 MHz*  | 2-11       | 15" - 107"*           | 200                      | Dual-band also available                |
| Omnidirectional   | FR Series                     | FR(X)***       | 380 - 512 MHz        | 20 - 24 MHz*  | 5-7        | 77.79" - 118.75"*     | 150                      | _                                       |
| Offinidirectional | Voyager®                      | VG****         | 406 - 512 MHz        | 44 -62 MHz*   | 7-8        | 25" - 35"             | 200                      | _                                       |
|                   | Ringo                         | CR(S)(X)***(B) | 406 - 512 MHz        | 14 - 22 MHz*  | 4-9        | 17" - 54"*            | 250                      | -                                       |
|                   | Gold/Black Series<br>(Rugged) | Y(B)****       | 406 - 970 MHz        | 20 - 90 MHz*  | 11-15      | 16.75" -<br>68.0625"* | 150 -200                 | _                                       |
| Yagis             | Silver Series<br>(Economy)    | YS****         | 406 - 970 MHz        | 20 - 90 MHz*  | 10-15      | 16.75" - 72"*         | 150 -200                 | _                                       |
| , agis            | Heavy Duty PLC                | PLC****(N)     | 300 - 512 MHz        | 14 - 22 MHz*  | 11-15      | 31.25" - 66"*         | 250                      | _                                       |
|                   | Economy P and PE              | P(E)****       | 406 -495 MHz         | 20 - 55 MHz*  | 10-12      | 15.25" - 36"*         | 250                      | _                                       |
|                   | Enclosed Yagi                 | YE*****        | 2.4 - 5.8 GHz        | 100 - 900 MHz | -          | _                     | _                        | _                                       |
|                   | 2 Bays                        | YDA***2        | 450 - 470 MHz        | 20 MHz        | 7-10       | _                     | _                        | Single or replacement dipoles available |
| Dipole Arrays     | 4 Bays                        | YDA***4        | 450 - 512 MHz        | 20 - 22 MHz*  | 10-13      | _                     | _                        | Single or replacement dipoles available |
|                   | Broadband Arrays              | ****(S)(P)     | 350 - 512 MHz        | 10 - 22 MHz*  | 8-13       | 50.4 "- 288"*         | 500                      | _                                       |









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