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ANTENNAS

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# COUNTER-UAS ANTENNAS



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Alaris Antennas has a significant number of antennas which can be used for counter-UAS solutions. The products include linear and circular polarised antennas with various options for sensing, high power transmit and direction-finding applications. The products are designed for use in mobile, base station, and man-portable applications.

|            | 0 MHz | 20 MHz | 100 MHz | 200 MHz | 300 MHz | 400 MHz | 500 MHz | 1 GHz | 3 GHz | 4 GHz | 5 GHz | 6 GHz | 9 GHz | 18 GHz |
|------------|-------|--------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|-------|--------|
| DF-A0095   |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| DF-A0273   |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| DF-A0257   |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| DF-A0303   |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| SPRL-A0005 |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| HD4050M    |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| WD4050M    |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| HD4050Q    |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| SPRL-A0020 |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| DF-A0121   |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| DF-A0254   |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| LPDA-A0162 |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| LPDA-A0167 |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| DFS-A0121  |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| DF-A0250   |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| LPDA-A0121 |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| LPDA-A0141 |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| WB425M     |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| WB425XM    |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| WB460W     |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| WD460M     |       |        |         |         |         |         |         |       |       |       |       |       |       |        |
| HELI-A0106 |       |        |         |         |         |         |         |       |       |       |       |       |       |        |



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|            | 0 MHz | 20 MHz | 100 MHz | 200 MHz | 300 MHz | 400 MHz | 500 MHz | 1 GHz | 3 GHz | 4 GHz | 5 GHz | 6 GHz | 9 GHz | 18 GHz |
|------------|-------|--------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|-------|--------|
| DA4348B    |       |        |         |         |         | ■       |         |       |       |       |       |       |       |        |
| HELI-A0103 |       |        |         |         |         | ■       |         | ■     |       |       |       |       |       |        |
| SPRL-A0025 |       |        |         |         |         |         | ■       | ■     | ■     | ■     | ■     | ■     |       |        |
| LPDA-A0067 |       |        |         |         |         |         | ■       | ■     |       |       |       |       |       |        |
| SPRL-A0010 |       |        |         |         |         |         | ■       | ■     | ■     | ■     | ■     | ■     |       |        |
| SPRL-A0018 |       |        |         |         |         |         |         | ■     |       |       |       |       |       |        |
| SPRL-A0019 |       |        |         |         |         |         |         | ■     | ■     |       |       |       |       |        |
| SPRL-A0027 |       |        |         |         |         |         |         | ■     | ■     | ■     | ■     | ■     |       |        |
| SPRL-A0008 |       |        |         |         |         |         |         | ■     | ■     | ■     | ■     | ■     |       |        |
| HELI-A0104 |       |        |         |         |         |         |         | ■     |       |       |       |       |       |        |
| HELI-A0108 |       |        |         |         |         |         |         | ■     |       |       |       |       |       |        |
| SPRL-A0021 |       |        |         |         |         |         |         | ■     | ■     | ■     | ■     | ■     |       |        |
| LPDA-A0160 |       |        |         |         |         |         |         | ■     | ■     | ■     | ■     | ■     |       |        |
| DF-A0253   |       |        |         |         |         |         |         | ■     | ■     | ■     | ■     | ■     |       |        |
| HELI-A0105 |       |        |         |         |         |         |         | ■     |       |       | ■     | ■     |       |        |
| SBA2456DB  |       |        |         |         |         |         |         | ■     |       |       |       | ■     |       |        |
| SBA2456XDB |       |        |         |         |         |         |         | ■     |       |       |       | ■     |       |        |
| DA36B      |       |        |         |         |         |         |         |       | ■     | ■     | ■     | ■     |       |        |

| Antenna                    | Product Description                         | Frequency                      | Gain           | Polarisation | Dimensions (mm)  | Mass     | Connector               | Power          |
|----------------------------|---|--------------------------------|----------------|--------------|--|----------|-------------------------|----------------|
| <a href="#">DF-A0095</a>   | Wideband portable DF Antenna                | 1 – 6000 MHz                   | See Data Sheet | Vertical     | 731 (H) x 1100 (D)   | 33 kg    | See Data Sheet          | Receive only   |
| <a href="#">DF-A0273</a>   | 4-Channel DF Antenna                        | 20 – 500 MHz                   | See Data Sheet | Vertical     | 350 (D) x 466 (H)  | 8 kg     | N-Type (f)              | 1 W            |
| <a href="#">DF-A0257</a>   | Compact Adcock DF Antenna                   | 20 - 6000 MHz                  | See Data Sheet | Vertical     | 100 (D) x 400 (H)  | < 1.5 kg | MIL-DTL-38999 Multi-Pin | -              |
| <a href="#">DF-A0303</a>   | Compact 4-Channel DF Antenna                | 20 – 6000 MHz                  | See Data Sheet | Vertical     | See Data Sheet   | < 1.2 kg | MIL-DTL-38999 Multi-Pin | 3 W            |
| <a href="#">SPRL-A0005</a> | High Power Circular Polarised Antenna       | 400 – 450 MHz                  | > 6 dBi        | LHCP         | 500 (D) x 875 (L)  | < 15 kg  | 7/16 (f)                | 700 W CW       |
| <a href="#">HD4050M</a>    | High gain dipole vehicle antenna            | 400 - 500 MHz                  | 4 dBi          | Vertical     | 1030 (H)   | 2.1 kg   | N-Type (f)              | 100 W          |
| <a href="#">WD4050M</a>    | Highly efficient vehicle Antenna            | 400 – 500 MHz                  | On request     | Vertical     | 510 (H)  | 1.7 kg   | N-Type (f)              | 200 W          |
| <a href="#">HD4050Q</a>    | High gain dipole manpack antenna            | 400 - 600 MHz                  | 3 dBi          | Vertical     | 838 (H)  | 410 g    | N-Type (m)              | 75 W           |
| <a href="#">SPRL-A0020</a> | High-Power Circular Polarised Antenna       | 400 - 2500 MHz                 | > 6 dBic       | LHCP         | 900 (L) x 510 (D)  | < 12 kg  | N-Type (f)              | 200 W          |
| <a href="#">DF-A0121</a>   | Compact Dual Band Direction Finding Antenna | 400 - 6000 MHz                 | -              | Vertical     | 304 (D) x 720 (H)  | < 12 kg  | TNC (f)                 | -              |
| <a href="#">DF-A0254</a>   | Compact Adcock DF Antenna                   | 400 - 6000 MHz                 | -              | Vertical     | 83 (D) x 385 (H)   | < 2 kg   | MIL-DTL-38999           | -              |
| <a href="#">LPDA-A0162</a> | Dual Port High-Power LPDA Antenna           | 400 - 6000 MHz                 | See Data Sheet | Linear       | 625 (L) x 710 (H) x 160 (W)  | < 5 kg   | N-Type (f)              | 100 W CW       |
| <a href="#">LPDA-A0167</a> | Tri Port High-Power LPDA Antenna            | 400 - 6000 MHz                 | See Data Sheet | Linear       | 600 (L) x 880 (H) x 160 (W)  | < 6 kg   | N-Type (f)              | 100 W CW       |
| <a href="#">DFS-A0121</a>  | Compact Direction-Finding Antenna System    | 400 - 6000 MHz                 | See Data Sheet | -            | -  | -        | -                       | -              |
| <a href="#">DF-A0250</a>   | Compact Wideband DF Antenna                 | 400 - 6000 MHz                 | See Data Sheet | Vertical     | 2100 (H) x 770 (D)   | < 30 kg  | TNC (f)                 | See Data Sheet |
| <a href="#">LPDA-A0121</a> | High Power LPDA Antenna                     | 400 - 6000 MHz                 | 8 dBi          | Linear       | 450 (W) x 770 (L)  | 3.7 kg   | N-Type (f)              | See Data Sheet |
| <a href="#">LPDA-A0141</a> | High Power LPDA Antenna                     | 400 - 6000 MHz                 | 8 dBi          | Linear       | 450 (W) x 770 (L)  | 3.7 kg   | N-Type (f)              | See Data Sheet |
| <a href="#">WB425M</a>     | Compact wideband UHF/SHF vehicle antenna    | 400 - 6000 MHz                 | On request     | Vertical     | 130 (H)  | 1 kg     | N-Type (f)              | 200 W          |
| <a href="#">WB425XM</a>    | Ultra Wideband High-Power Vehicle Antenna   | 400 - 6000 MHz                 | On request     | Vertical     | 130 (H)  | 1 kg     | 7/16 (f)                | 400 W          |
| <a href="#">WB460W</a>     | Wideband UHF/SHF Magnetic Mount Antenna     | 420 - 6000 MHz                 | On request     | Vertical     | 142 (H)  | 900 g    | N-Type (f)              | 200 W          |
| <a href="#">WD460M</a>     | Omni Wideband UHF/SHF Vehicle Antenna       | 420 - 6000 MHz                 | On request     | Vertical     | 500 (H)  | 2 kg     | N-Type (m)              | 40 W           |
| <a href="#">HELI-A0106</a> | Dual Port Helical Spiral Antenna            | 430 – 450 MHz                  | See Data Sheet | RHCP         | 650 (L)<br>Radome: 230 (D)<br>Mounting Flange: 470 (D)                       | < 10 kg  | N-Type (f)              | 150 W CW       |
| <a href="#">DA4348B</a>    | High Gain Directional UHF Loop Antenna      | 430 - 480 MHz                  | 6 dBi          | Vertical     | 300 x 300 x 100  | 2 kg     | N-Type (f)              | 100 W          |
| <a href="#">HELI-A0103</a> | Dual Port Helical Antenna                   | 433 – 435 MHz<br>900 – 930 MHz | > 12 dBi       | RHCP         | 1382 (L)<br>Radome: 258 (D)<br>Mounting Flange: 691 (D)                      | < 15 kg  | N-Type (f)              | 100 W CW       |
| <a href="#">SPRL-A0025</a> | High Power Circular Polarised Antenna       | 750 – 6000 MHz                 | > 6 dBi        | LHCP         | 450 (L)<br>Radome: 175 (D)<br>Mounting Flange: 220 (D)                       | < 2 kg   | N-Type (f)              | 50 W CW        |
| <a href="#">LPDA-A0067</a> | High Power Directional LPDA Antenna         | 800 – 3000 MHz                 | 12 dBi         | Vertical     | 720 (L) x 80 (W) x 470 (H)   | 4.5 kg   | N-Type (f)              | See Data Sheet |
| <a href="#">SPRL-A0010</a> | Dual Port Circular Polarised Antenna        | 900 - 6000 MHz                 | > 6 dBi        | RHCP/LHCP    | 220 (D) x 450 (H)  | < 2 kg   | N-Type (f)              | 100 W          |
| <a href="#">SPRL-A0018</a> | High Power Circular Polarised Antenna       | 1000 - 1600 MHz                | 12 dBi         | RHCP         | 1000 (L) x 160 (D)   | < 3 kg   | N-Type (f)              | 50 W           |
| <a href="#">SPRL-A0019</a> | High Power Circular Polarised Antenna       | 1000 - 2500 MHz                | > 6 dB typical | RHCP/LHCP    | 220 (D) x 300 (H)  | < 2 kg   | N-Type (f)              | 100 W CW       |
| <a href="#">SPRL-A0027</a> | Cavity Backed Spiral Antenna                | 1000 - 6000 MHz                | 3 to 5 dBi     | LHCP & RHCP  | 72 (L) x 163 (D)   | 500 g    | SMA (f)                 | 10 W CW        |
| <a href="#">SPRL-A0008</a> | High Power Circular Polarised Antenna       | 1000 - 6000 MHz                | > 6 dBi        | LHCP         | 320 (L) x 150 (D)  | < 4 kg   | N-Type (f)              | 50 W           |
| <a href="#">HELI-A0104</a> | Dual Port Helical Antenna                   | 1160 – 1260 MHz                | > 12 dBi       | RHCP         | 608 (L)<br>Radome A: 98 (D)<br>Radome B: 64 (D)<br>Mounting Flange 248 x 432 | < 3 kg   | N-Type (f)              | 100 W CW       |

| Antenna                    | Product Description                        | Frequency                          | Gain     | Polarisation           | Dimensions (mm)                                       | Mass   | Connector  | Power          |
|----------------------------|--|------------------------------------|----------|------------------------|---|--------|------------|----------------|
| <a href="#">HELI-A0108</a> | High Power Helical Antenna                 | 1160 - 1610                        | > 13 dBi | RHCP                   | 900 (L)<br>Radome: 100 (D)<br>Base: 280 (D)           | < 3 kg | N-Type (f) | 150 W CW       |
| <a href="#">SPRL-A0021</a> | High Power Circular Polarised Antenna      | 2000 - 6000 MHz                    | 10 dBic  | RHCP                   | < 550 (L) x 100 (D)                                   | < 2 kg | N-Type (f) | 100 W          |
| <a href="#">LPDA-A0160</a> | High-Power LPDA Antenna                    | 2000 - 6000 MHz                    | > 9 dBi  | Linear                 | 105 (L) x 341 (W)                                     | TBD    | N-Type (f) | See Data Sheet |
| <a href="#">DF-A0253</a>   | Compact Adcock DF Antenna                  | 2000 - 6000 MHz                    | -        | Vertical               | 83 (D) x 388 (H)                                      | < 2 kg | SMA (f)    | < 1 W          |
| <a href="#">HELI-A0105</a> | Dual Port Helical Antenna                  | 2400 – 2500 MHz<br>5100 – 6000 MHz | > 12 dBi | RHCP                   | 366 (L)<br>Radome: 44 (D)<br>Mounting Flange: 436 (D) | < 1 kg | N-Type (f) | 125 W CW       |
| <a href="#">SBA2456DB</a>  | Dual Band Switched Beam Antenna            | 2400 - 2500 MHz & 5600 MHz         |          | Vertical               | 320 (D)   | 4.6 kg |            | 10 W           |
| <a href="#">SBA2456XDB</a> | High Power Dual Band Switched Beam Antenna | 2400 - 2500 MHz & 5600 MHz         |          | Vertical               | 320 (D)   | 4.9 kg |            | 100 W          |
| <a href="#">DA36B</a>      | Directional C-UAS Antenna                  | 3000 - 6000 MHz                    | 8.5 dBi  | Vertical or Horizontal | 300 x 80 x 360  | 1.5 kg | N-Type (f) | 20 W           |