



### 2400-2483 MHz OPERATION FLAT PANEL DIRECTIONAL ANTENNA

The 2.4 GHz flat panel directional antennas by Laird offer high gain in a thin low profile package. The antennas are constructed of a gray color UV resistant ABS plastic radome with an aluminum backplate. The antenna can be used in horizontal or vertical polarization. The die cast aluminum or galvanized steel bracket affords +/- 45 deg up or down tilt adjustment and the stainless steel hardware assures a long service life. The PA24-13 and PA24-19 antenna can be surface mounted or pole mounted. The PA24-16 is pole mounted only. All antennas comes with an integral N female connector standard.

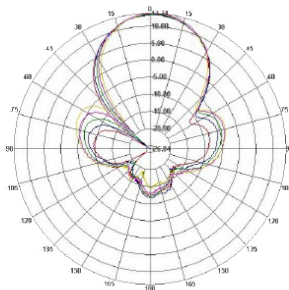
#### FEATURES

- High gain / low profile
- Pole mount or surface mount
- Rugged and weatherproof
- Vertical or horizontal polarization
- Type N female connector

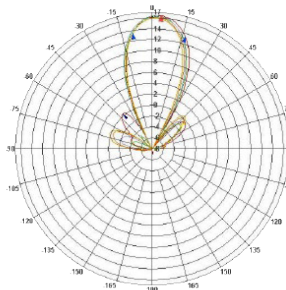
#### MARKETS

- Wireless LAN applications
- Client antennas
- 802.11b/g applications
- OEM wireless data
- WiMAX

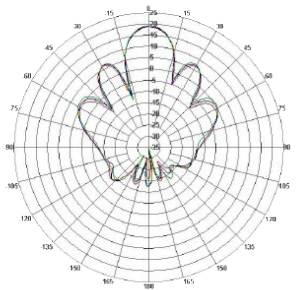
#### ANTENNA PATTERNS



**PA24-13**



**PA24-16**



**PA24-19**

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### SPECIFICATIONS

| PARAMETER               | PA24-13                                   | PA24-16                                 | PA24-19                                     |
|-------------------------|---|---|---|
| Frequency range         | 2400 - 2483 MHz                           | 2400 - 2483 MHz                         | 2400 - 2483 MHz                             |
| Gain                    | 13 dBi                                    | 16 dBi                                  | 19 dBi                                      |
| 3dB beamwidth (H & V)   | 35°                                       | 26°                                     | 17.5°                                       |
| Front to back           | 20 dB                                     | 27 dB                                   | 30 dB                                       |
| Cross polarization      | -20 dB                                    | -20 dB                                  | -20 dB                                      |
| VSWR                    | 1.5:1                                     | 1.5:1                                   | 1.5:1                                       |
| Impedance               | 50 ohm                                    |   | 50 ohm                                      |
| Input power             | 100 watts                                 |   | 100 watts                                   |
| Operating temperature   | -40° to +70°C                             | -40° to +70°C                           | -40° to +70°C                               |
| Pole size               | 1 to 2 in (25 to 50 mm)                   | 1 to 2 in (25 to 50 mm)                 | 1 to 2 in (25 to 50 mm)                     |
| Weight                  | 17.6 oz (0.5 kg)                          | 31.5 oz (0.9 kg)                        | 60 oz (1.7 kg)                              |
| Dimension (dia x depth) | 7.5 x 7.5 x 0.8 in<br>(190 x 190 x 20 mm) | 11 x 11 x 0.8 in<br>(279 x 279 x 20 mm) | 15.3 x 14.6 x 0.8 in<br>(389 x 368 x 20 mm) |
| Bracket tilt            | 45°                                       | 45°                                     | 45°   |

### WIND LOADING (LBS.)

| MODEL   | SQ. IN | 100 MPH | 125 MPH | 100 MPH WITH ½ IN RADIAL ICE |
|---------|--------|---------|---------|------------------------------|
| PA24-13 | 56     | 14 lbs  | 22 lbs  | 14 lbs                       |
| PA24-16 | 121    | 30 lbs  | 47 lbs  | 32 lbs                       |
| PA24-19 | 163    | 41 lbs  | 64 lbs  | 41 lbs                       |

### SYSTEM ORDERING

PA24-13 2.4 GHz 13 dBi flat panel directional  
antenna PA24-16 2.4 GHz 16 dBi flat panel  
directional antenna PA24-19 2.4 GHz 19 dBi flat  
panel directional antenna

### NOTES

- All shipments F.O.B. Schaumburg, IL 60173

ANT-DS-PA24 1115

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Laird:

PA24-19