Laird TECHNOLOGIES

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

Flat Panel Directional Antenna

PA24

2400-2483 MHz OPERATION FLAT PANEL DIRECTIONAL ANTENNA

The 2.4 GHz flat panel directional antennas by Laird Technologies 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.

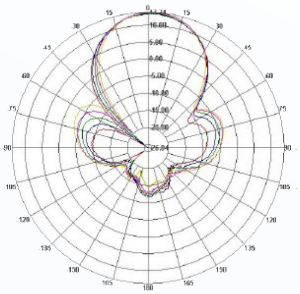
FEATURES ✓RoHS

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

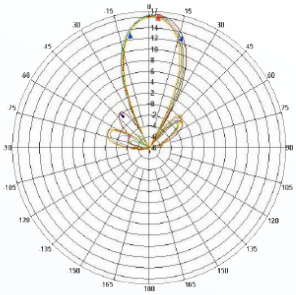
MARKETS

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

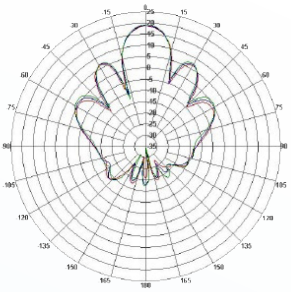
ANTENNA PATTERNS



PA24-13



PA24-16



PA24-19

global solutions: local support™

Americas: +1.847 839.6907
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

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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 (190 x 190 x 20 mm)	11 x 11 x 0.8 in (279 x 279 x 20 mm)	15.3 x 14.6 x 0.8 in (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

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