



## TELECOMMUNICATION ANTENNAS

# Planar Antennas for WLAN Application



### SOLUTION FOR

- General transmitting and receiving applications from 2.1 to 5.8 GHz
- Radar doppler and radio link point-to-point

## MAIN FEATURES

### Technical performance

- Optimized gain
- Handling power up to 20 W
- Supports long range point-to-point secure communications links
- Low profile shape ideal for covert tactical military applications

### Design

- Easy to integrate in existing installations
- Connector on the back

### Delivered documents

- Conformity certificate (measured VSWR)

### Related standard

- IEC 60068

## PRODUCT CONFIGURATION

### Equipment

- Mast mount
- Wall mount

### Related services

- Maintenance and customization

## Electrical characteristics

Part number	PA210-A	PA220-A	PA580-A
Frequency range	2100 – 2300 MHz	2200 – 2400 MHz	5725 – 5875 MHz
Gain	≥ 14 dBi	≥ 14 dBi	≥ 18 dBi
VSWR	1.8:1	1.8:1	1.8:1
CW power	20 W	20 W	20 W
Type	Patch array antenna	Patch array antenna	Patch array antenna
Impedance	50 Ohms	50 Ohms	50 Ohms
Polarization	Linear vertical	Linear vertical	Linear vertical
DC ground	Yes	Yes	Yes
Radiation pattern	Directive	Directive	Directive
Side lobes H plan	< -13 dB	< -13 dB	< -15 dB
Side lobes V plan	< -13 dB	< -13 dB	< -15 dB
Beamwidth at 3 dB H plan	30° ± 4°	30° ± 4°	20° ± 4°
Beamwidth at 3 dB V plan	30° ± 4°	30° ± 4°	20° ± 4°

## Mechanical characteristics

Part number	PA210-A	PA220-A	PA580-A
Dimensions			
Length (A)	235 mm	235 mm	235 mm
Width (B)	256 mm	256 mm	256 mm
Thickness (C)	17 mm	17 mm	17 mm
Weight (max)	1 Kg	1 Kg	1 Kg
Radome	ABS/ASA (White)*	ABS/ASA (White)*	ABS/ASA (White)*
Connector	N Female	N Female	N Female
Operating temperature	-40° C - +55° C	-40° C - +55° C	-40° C - +55° C

\* Different colors available upon request

