

# 698-960 MHz/1710-2700 MHz 2- Port MIMO Pole Mount Low-PIM Directional Panel Antenna

## MUTI-BAND LOW-PIM DIRECTIONAL PANEL ANTENNA

The Patent Pending PAS69278P antenna is a wide-band dual-port panel antenna with slant 45 polarization that covers the domestic LTE700/Cellular/PCS/AWS/MDS and global GSM900/GSM1800/UMTS/LTE2600 bands. The antenna is ideal for both indoor and outdoor applications. It includes a UV-stable radome enclosure that provides years of use without degradation to either the mechanical properties or aesthetics.



Patent Pending PAS69278P



Close-up of connector & bracket system



Optional mounting kit  
Part Number: HKIT-PAX-001

### FEATURES

- Applicable for 3G/4G, domestic LTE 700 band, Global LTE 2600 band, WiMax 2300/2500 band, domestic cellular and global GSM solutions
- Weatherproof UV stable radome
- Low Passive Intermodulation
- Conformance to RoHS

### APPLICATIONS

- In-building Wireless Networks
- 802.11b/g/n
- iDAS/oDAS
- Wireless Terminal, Point-of-Sale, Machine-to-Machine
- Automatic meter reading and home security

### SPECIFICATIONS

PARAMETERS								
Frequency Bands, MHz	700	850	900	1800	1900	2100	2300	2600
Peak Gain, dBi (Typ)	8.7	9.0	9.8	7.5	8.5	8.4	9.5	9.7
Peak Gain, dBi (Max)	9.1	9.7	10.4	8.5	9.1	9.1	10.1	10.0
PAS69278P-91NF Additional Loss, dB	0.5	0.6	0.6	0.9	0.9	1.0	1.1	1.1
VSWR (Typ)	<2.0:1	<1.9:1	<1.7:1	<1.6:1	<1.5:1	<1.5:1	<1.6:1	<1.8:1
Isolation, dB (Typ)	<-38	<-40	<-40	<-30	<-30	<-30	<-30	<-30
3 dB Beamwidth, Vertical Plane	66° to 70°	61° to 65°	56° to 60°	57° to 84°	46° to 62°	46° to 72°	57° to 66°	48° to 55°
3 dB Beamwidth, Horizontal Plane	65° to 74°	59° to 65°	57° to 60°	56° to 85°	52° to 64°	52° to 82°	58° to 63°	48° to 54°
PIM, 3rd Order, 2 x 20W (Typ)	< -151 dBc			< -153 dBc				
CPR at Boresight (Typ)	25 dB			23 dB				
CPR at Boresight (Min)	25 dB			17 dB				
F/B Ration, Co-pol	21 dB							
Isolation, (Min)	-28 dB							
PIM, 3rd Order, 2 x 20W (Max)	< -150 dBc							
Maximum VSWR	2.0:1							
Nominal Impedance	50 Ω							
Max Input Power per port	50 Watts							
Polarization	Slant ± 45°							
RF Connector	Dual Type N female							
Radome & Base color	White, color code (SABIC) WH9B034							
Flammability Rating (Radome)	UL 94V0 Materials							
Dimensions (width x length x height)	295 x 295 x 82 mm (11.6" x 11.6" x 3.2")							
Weight	1.46 kg (3.2 lbs)							
Storage Temperature	-40°C to 85°C (-40° F to 185° F)							
Operational Temperature	-30°C to 70°C (-22°F to 158°F)							
Environmental Conditions	ETSI EN300 019-2-4, class 4.1E.							
Wind Rating	150 km/hr (93 mph)							
Ingress Protection	PAS69278P-FNF model only for outdoor IP55							
Material Substance Compliance	RoHS Compliant							

Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941 IAS-  
EUSales@lairdtech.com

Asia: +86.21.5855.0827.127  
IAS-AsiaSales@lairdtech.com

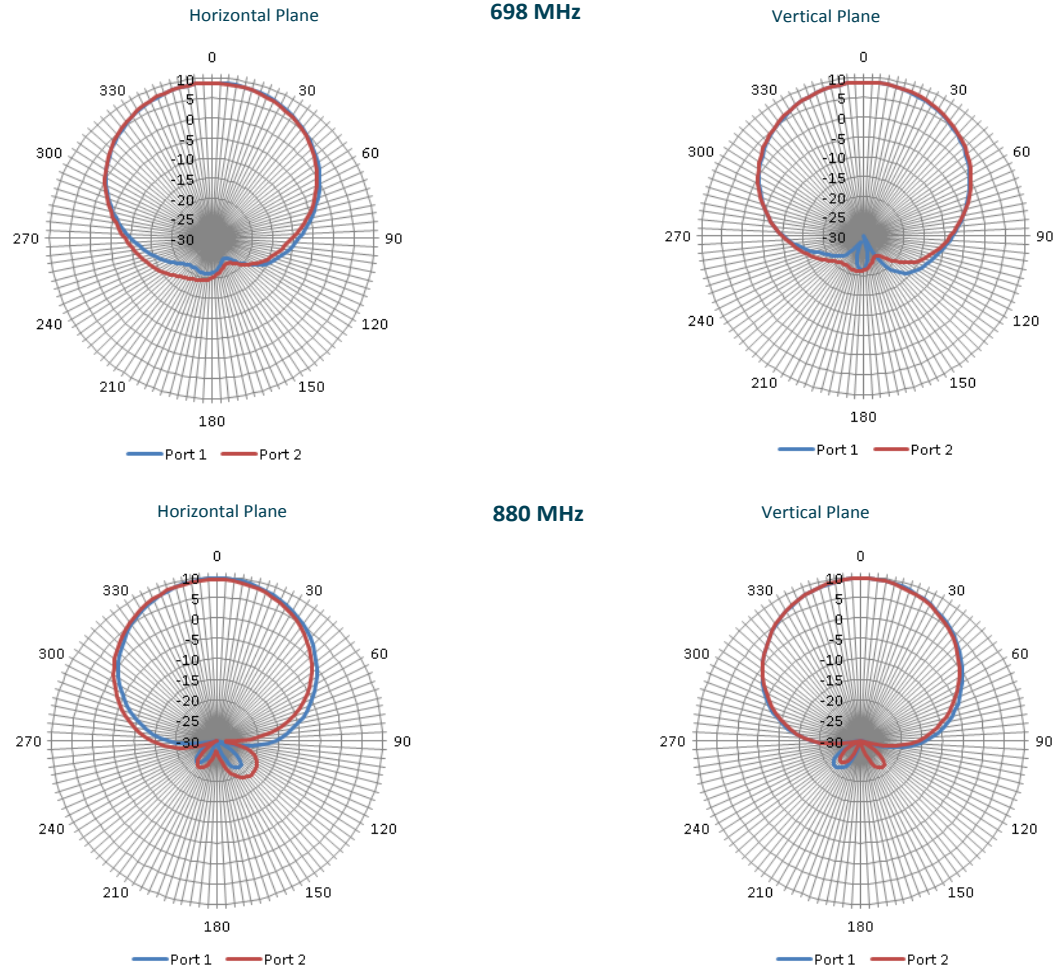
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### SPECIFICATIONS

MODEL NUMBER	CABLE LENGTH	CONNECTOR
PAS69278P-FNF	NA (Direct Connect)	Dual Type N Female
PAS69278P-91NF	91 cm, (36"), cable	Dual Type N Female
PAS69278P-30D41F	30 cm, (12"), cable	Dual Type 4.1-9.5 Female
PAS69278P-30D43F	30 cm, (12"), cable	Dual Type 4.3-10 Female

### ANTENNA PATTERNS



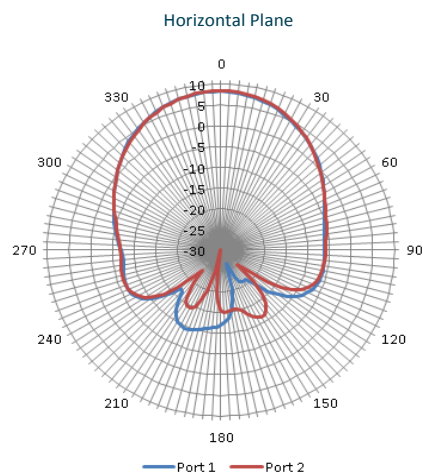
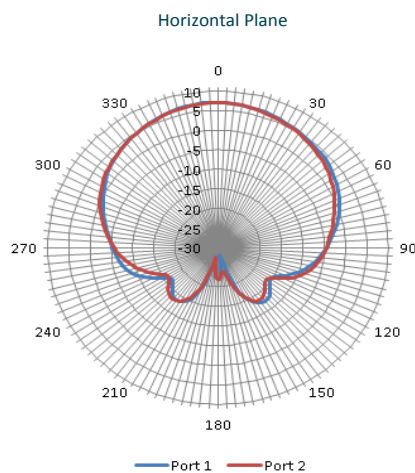
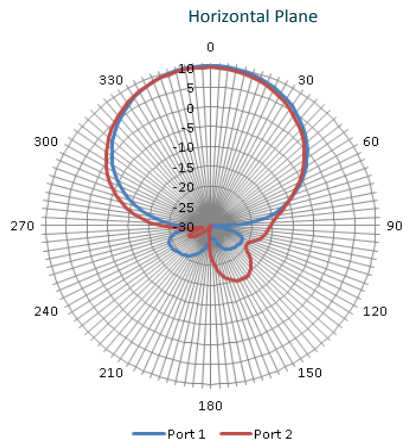
Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941 IAS-  
EUSales@lairdtech.com

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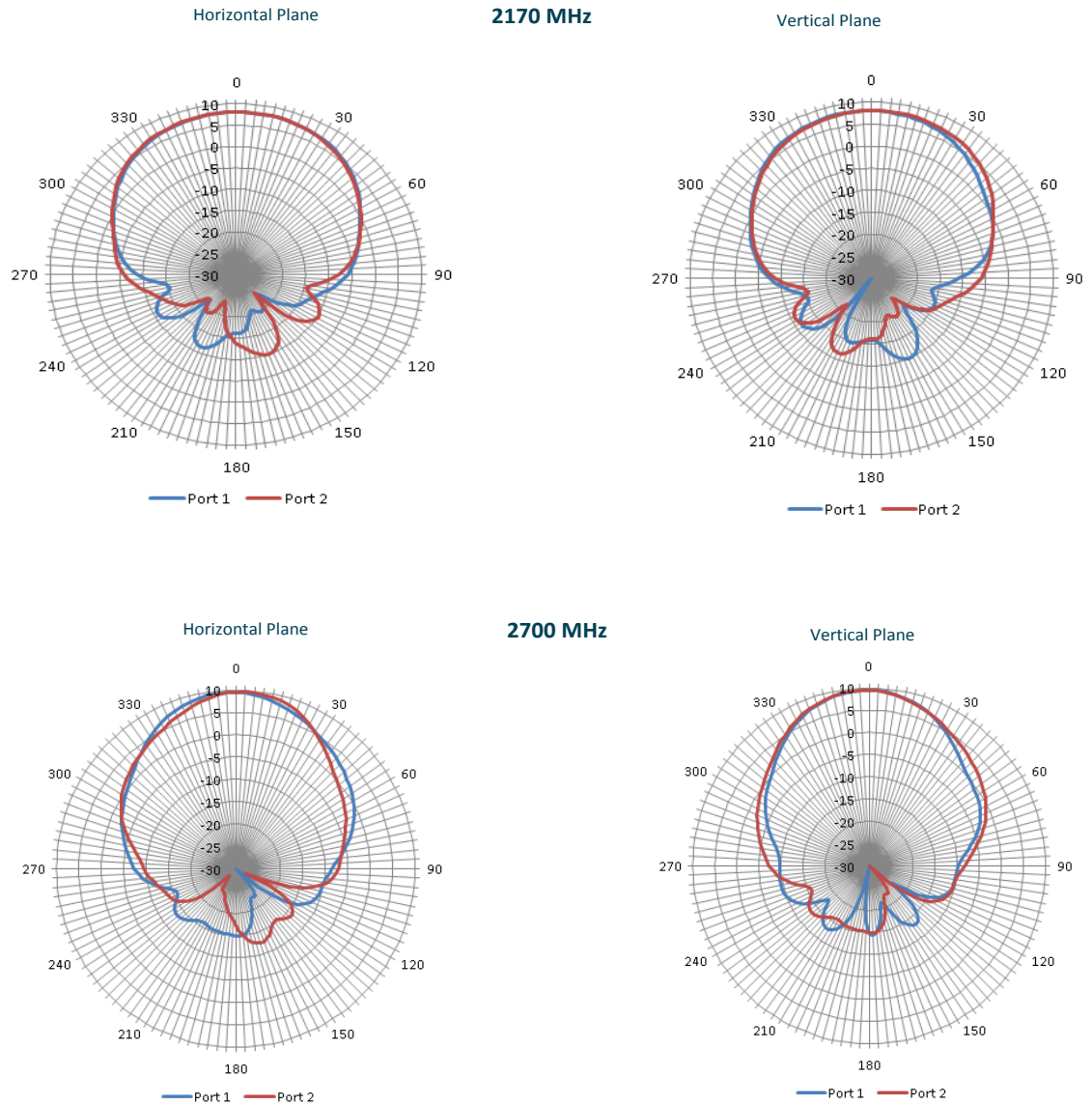
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IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

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IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

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