

LP-PANELM5012**5.1-5.9 GHz Band 12dBi Gain Dual Polarized vertical and Horizontal
±45 Panel Directional Outdoor MIMO Antenna.**

LPPANELM5012_SS_ENB01W

Features:

- 5.1 –5.9 GHz Band.
- IEEE 802.11a. 802.11n Wireless LAN.
- Horizontal and Vertical Polarizable.
- 12dBi Gain.
- Low Profile, Unobstructive and ideal for indoor or outdoor use.
- Stainless steel and aluminum Mounting hardware.
- Optional tilt down capability for optimal angle positioning.
- Connector N Female or SMA.
- Weight: 1 Kg.
- Impedance 50 Ohm.
- Vertical Beam-width -45: 18°.
- Horizontal Beam-width +45: 72°.



LP-PANELM5012
5.1-5.9 GHz Band 12dBi Gain Dual Polarized
vertical and Horizontal ±45 Panel
Directional Outdoor MIMO Antenna.

The LP-PANELM5012 is a 5.1-5.9 GHz Band with a solid 12dBi Gain Dual Polarized vertical and Horizontal ±45 Panel Directional Outdoor MIMO Antenna that can be used for IEEE 802.11a wireless LAN, N-Mimo, Bluetooth, public wireless hotspot and other coverage. Ideal for Point-to-Point (PtP) and Point to Multipoint (PtMP) applications mainly for connecting distant clients, even if they are several kilometers away from the servers

The LP-PANELM5012 has two(2) N-Female connectors and can be directly mounted on a wall or pole featuring vertically or horizontally polarization. It can also be installed with a degree tilt mounting kit on other types of supports like our LP-PAW universal mounting system pole..

The internal is designed on Rogers (PCB) with ABS casing and aluminum body for the base. These antennas are unobstructive, good looking, reasonable priced and easy to install.

Fully weather proof and UV resistant, easy to hide, they can be painted with non-conductive oil paints.

Is a good substitute for parabolic antennas when distance and performance is not that critical.. Very simple to align.



A Electrical Specifications

Description	Specification
Frequency Range	5100MHz - 5900MHz
Antenna Type	Panel MIMO
Radiation	±45°
Gain (MAX)	12 dBi
Polarization	Vertical and Horizontal
Maximum Power	50 Watts
Vertical Beam-width	-45: 18°
Horizontal Beam-width	+45: 72°
Impedance	50 Ohm
Antenna Design	Patch Array
Internal Material	PTFE(Rogers PCB)
Connector	N-Female*2

B Mechanical Specifications

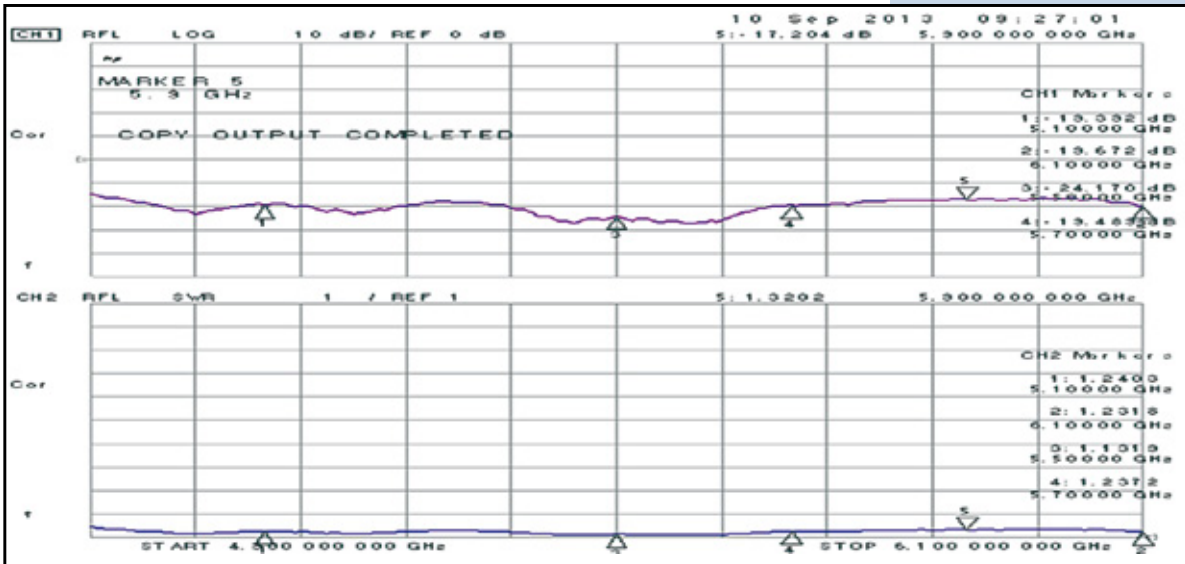
Length x Width x Height (MAX)	180 × 150 x 25 mm
Antenna Weight (G.W)	220 g
Application	Indoor / Outdoor
Radome Material and Color	UV resistant ABS (Gray)
Plate Material	Aluminum
Mount Style	Pole Mount
Mounting	Stainless Steel and Aluminum
Wind Survival	> 150MPH
Storage Temperature	-40 ~ +80°
Operating Temperature	10% ~ 90% non-condensing
Operating Humidity	5% ~ 90% non-condensing
Storage Humidity	5% ~ 90% non-condensing
Safety, Emission and other.	RoHS

C Network Analyzer Test Report

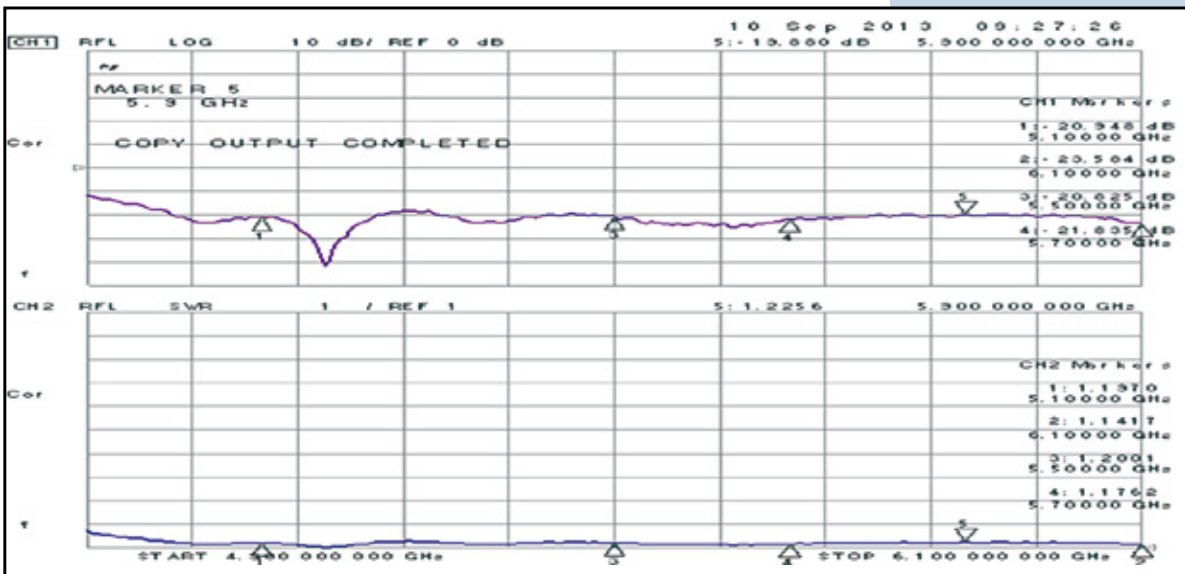
Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Test Equipment Cable	Agilent 60cm Sma male to Sma male
RF connector Adapter	Agilent SMA-Female to N-Male DC~18GHz
Correction	85052D-DC-26.5Ghz
Test Model	LP-PANELM5012
Test Port	S11

D Return Loss & V.S.W.R

+45°



+45°

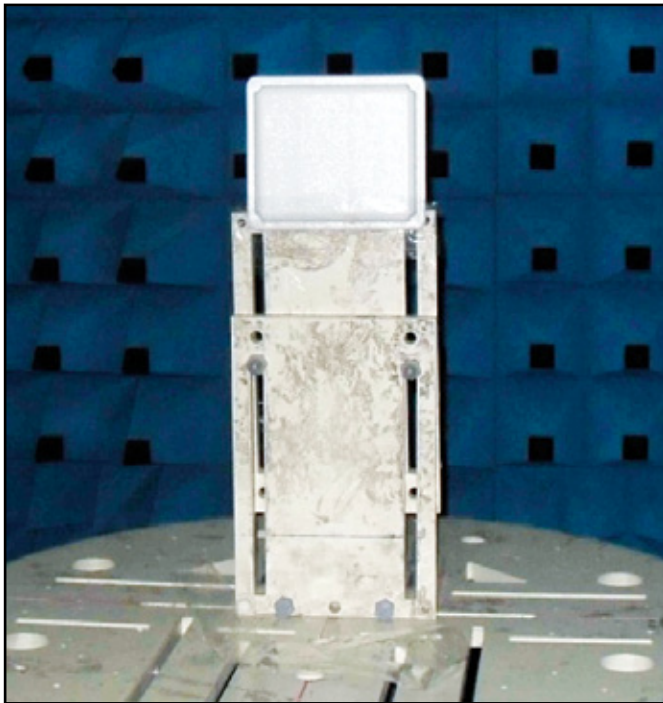
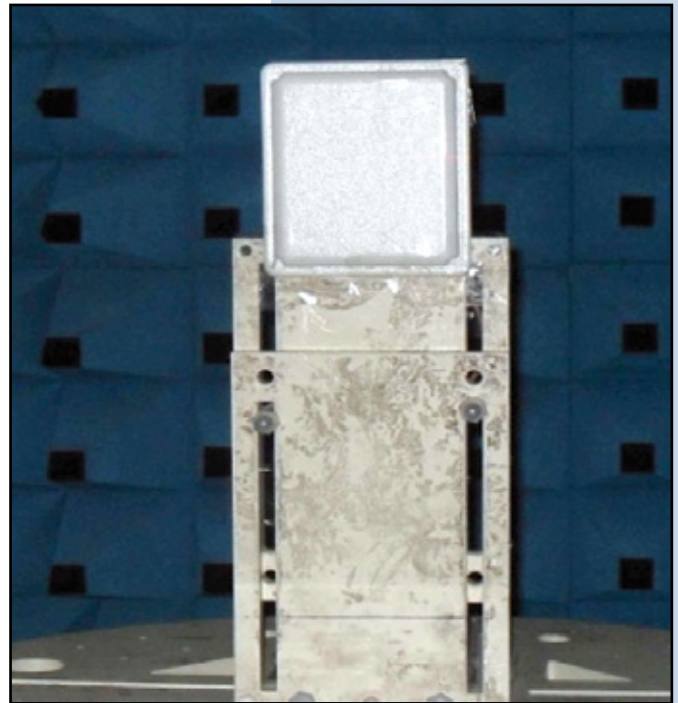


Isolation



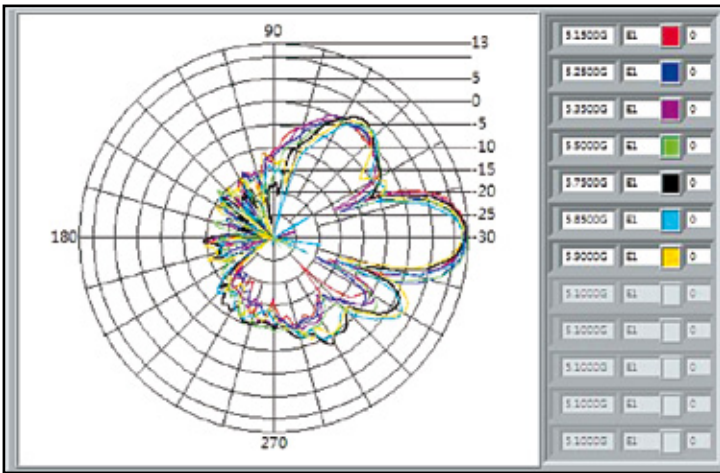
E RF Chamber Test Report

Test Equipment	Agilent 8720ET 50MHz-20.5GHz
Chamber	7M(D) X 7M(H) X14M(L)
Test Frequency	5.1GHz-5.9GHz
Horn Antenna	700MHz - 18GHz, Gain 3dBi to 18dBi

Vertical Pattern Photos**Horizontal Pattern Photos**

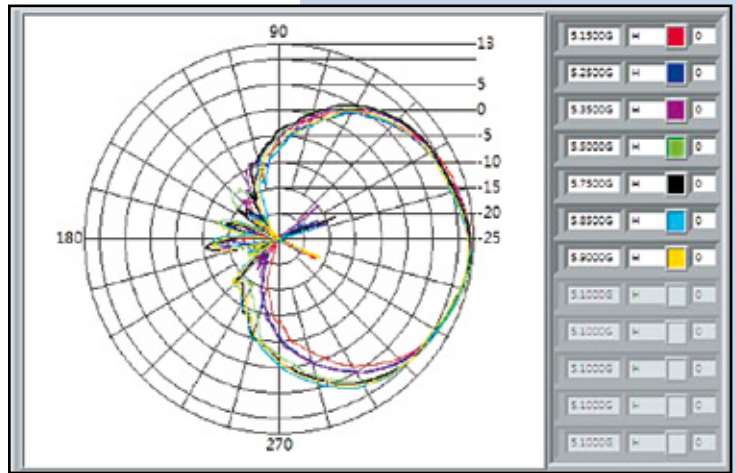
VERTICAL PATTERN

Port1 -45 18°

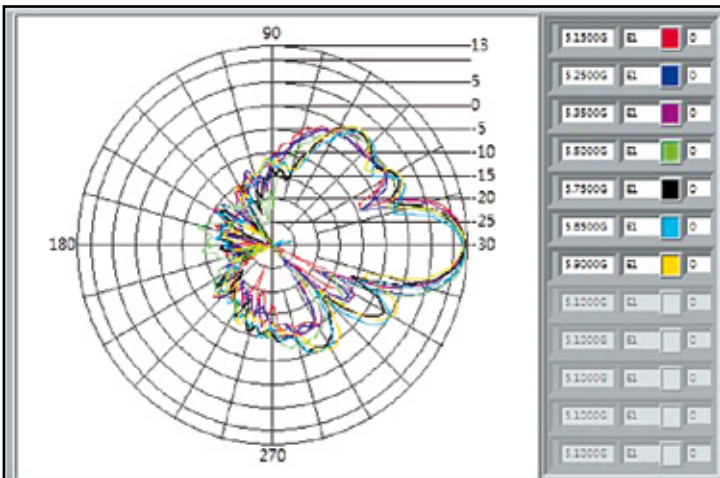


HORIZONTAL PATTERN

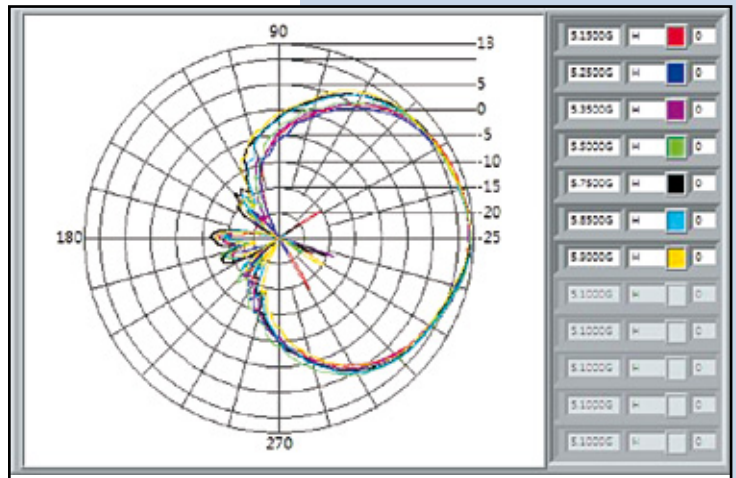
Port1 +45 72°



Port2 +45 18°



Port2 -45 73°



F How to Order:

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LanPro is continuously improving its products and reserves the right to change specifications and availability without prior notice.