

# PA2200

Tri-band Access Point  
 Max performance  
 Cloud managed



## PA2200



**2.4 GHz 802.11n and 2x 5 GHz 802.11ac Wave 2 concurrent WiFi**



**Zero Config Plug-n-Play**



**Free cloud-based web console for complete management**



**Universal installation kit included**

### TRI-BAND ACCESS POINT

Plasma Cloud's response to high performance requirements. This tri-band (1x 2.4GHz & 2x 5GHz) 802.11ac WiFi AccessPoint offers maximum throughput by leveraging the full WiFi spectrum concurrently. The PA2200 shines best in high density and high throughput demand scenarios.

### POWER OVER ETHERNET (PoE)

Power over Ethernet (PoE) allows to supply a device with power and data over a single Ethernet cable connection. This reduces installation cost and effort for locations without available power lines. Furthermore, when connected to a Plasma Cloud PoE switch, PoE allows to centrally manage & monitor the power supply.

### ETHERNET PORTS

The 2 provided Ethernet ports allow for maximum flexibility: one port can be used as wired uplink while the other port serves as LAN access for other wired devices. Each Ethernet port comes with a smart uplink detection to automatically determining whether a port should be uplink or provide LAN access.

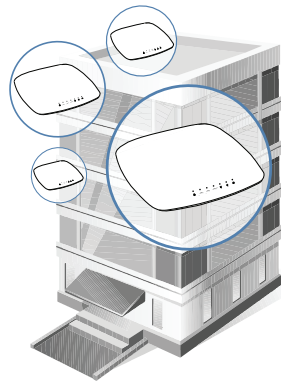
### MOUNTING OPTIONS

Regardless where to place the access points – on a wall or ceiling grid – the installer kit included with every AccessPoint facilitates the installation. Easily pluggable mounting options got you covered for every scenario.

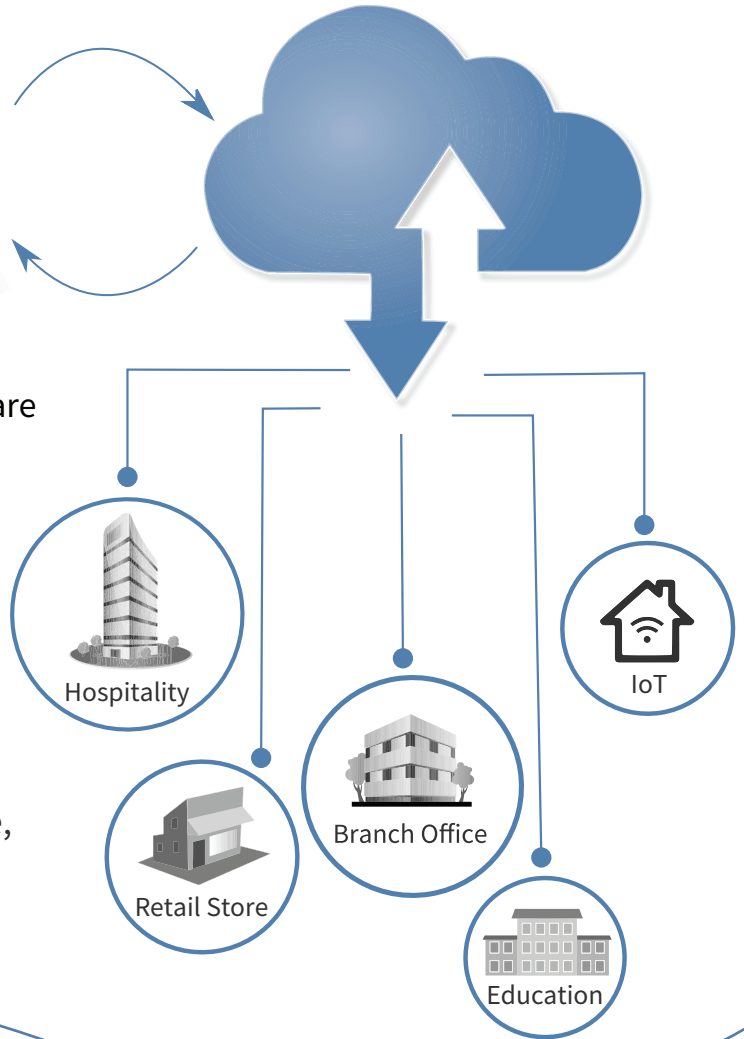
# NETWORK AS A SERVICE (NaaS)

## HIGHLIGHTS:

- Access Control
- Presence Data
- Guest WiFi
- Monetization
- Proximity Marketing
- VPN



On Premise Hardware



## CLOUD KEY FEATURES:

- Zero touch deployment
- Automated monitoring and alerting
- Manage and troubleshoot from anywhere, anytime

## INDUSTRY LEADING SOFTWARE AND PRODUCTS



### Affordable Network Solution

Plasma Cloud offers an affordable turnkey solution to cover all needs in and around your network. WiFi Access Points and Switches in various sizes to fit your needs & budget bundled with free & powerful cloud management.



### Best In-Class Cloud

Plasma Cloud's technology team has built the fastest and most scalable network management cloud system. Our experts have put in their combined experience to develop a truly unique product that will impress you in many ways.



### Simplicity is Key

Plasma Cloud is designed for the needs of those tired of endless manual tweaking and cumbersome monitoring. Our smart software is designed to minimize setup effort to the essential and get you started in no time!



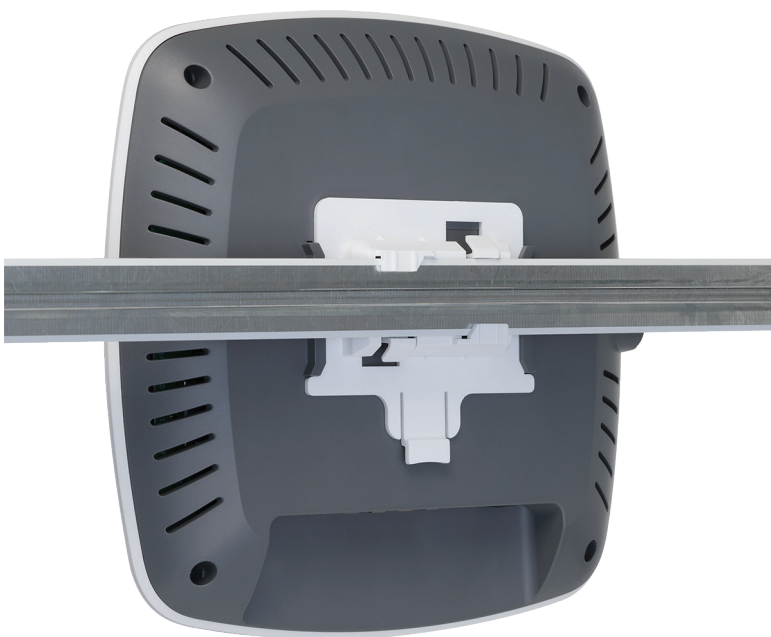
### White-Label Dashboard

Our dashboard is the reference web interface. It is designed to be highly customizable, both for branding and adaptation purposes as well as for the end-user.

# MOUNTING OPTIONS

## INDOOR ONLY

Wall Mount



T-rail Mount

# TECHNICAL SPECIFICATIONS

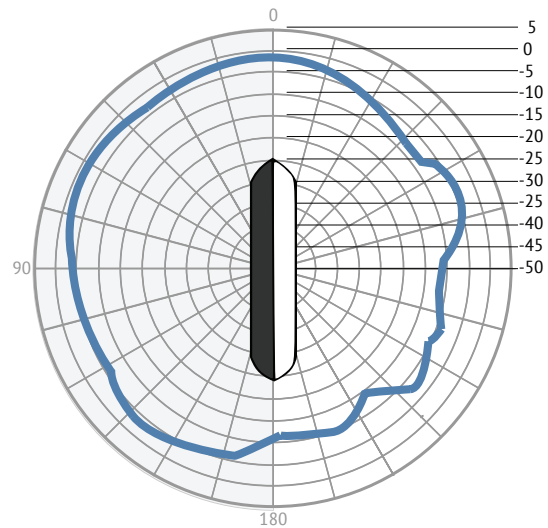
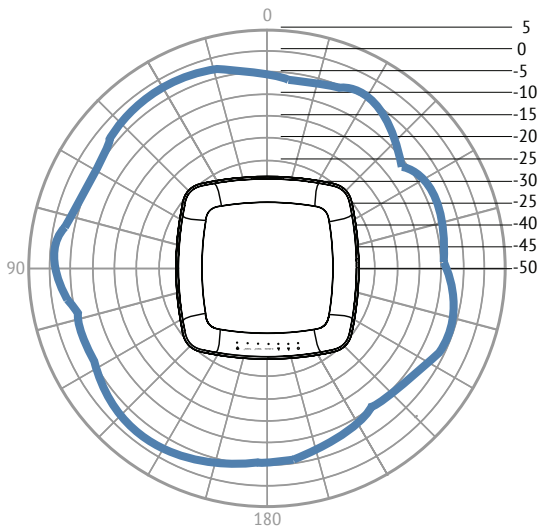
<b>Radio Chains / Streams</b>	2.4 GHz : 2x2 5 GHz : 2x2 + 2x2
<b>Antennas</b>	2.4 GHz : 5.0 dBi 5 GHz : 5.0 dBi
<b>Data Rates</b>	300 Mbps + 867 Mbps + 867 Mbps
<b>2.4 GHz</b>	2 stream, 802.11 b/g/n (max rate : 300 Mbps)
<b>5 GHz</b>	2 stream, 802.11 a/b/g/n/ac (max rate: 867 Mbps) Wave 2, MU-MIMO + 2 stream, 802.11 a/b/g/n/ac (max rate: 867 Mbps) Wave 2, MU-MIMO
<b>Processor</b>	Qualcomm Dakota IPQ4019
<b>Memory</b>	256 MB DRAM DDR3
<b>Physical Interface</b>	2x 1000Mbps Ethernet ports
<b>PoE</b>	802.3at
<b>DC Jack</b>	12V / 2A
<b>Power Consumption</b>	Min : 11W Max : 20W
<b>Indoor / Outdoor Rating</b>	recommended indoor device
<b>Dimension (W x D x H)</b>	200 x 200 x 45 mm
<b>Weight</b>	902 g
<b>Operating Temperature</b>	0 °C ~ 40 °C (32 °F ~ 104 °F)
<b>Certifications</b>	CE, FCC, IC, RCM
<b>Zero Config Plug-n-Play</b>	Yes
<b>Wireless Mesh Network</b>	Yes
<b>Free Cloud Console</b>	Yes
<b>Free Mobile App</b>	Yes

# RADIO 1, 2.4 GHz:

RF PERFORMANCE TABLE

Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11b	1 Mbps	20 dBm	-93 dBm
	2 Mbps	20 dBm	
	5.5 Mbps	20 dBm	
	11 Mbps	20 dBm	-86 dBm
802.11g	6 Mbps	20 dBm	-89 dBm
	9 Mbps	20 dBm	
	12 Mbps	19 dBm	
	18 Mbps	19 dBm	
	24 Mbps	18 dBm	
	36 Mbps	18 dBm	
	48 Mbps	17 dBm	
	54 Mbps	17 dBm	-72 dBm
802.11n (HT20)	MCS0	20 dBm	-88 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	-69 dBm
802.11n (HT40)	MCS0	20 dBm	-86 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	-67 dBm

## RADIATION PATTERNS



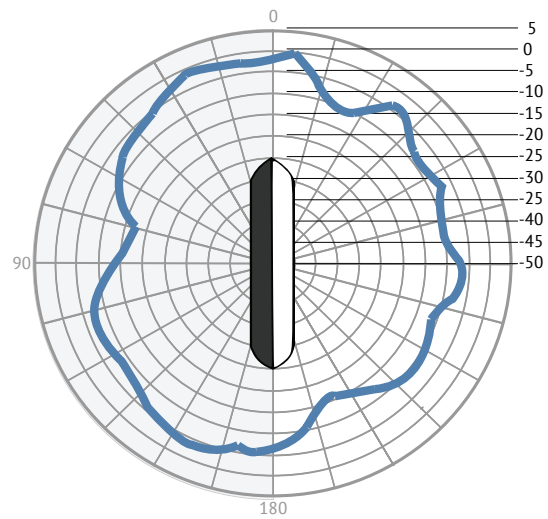
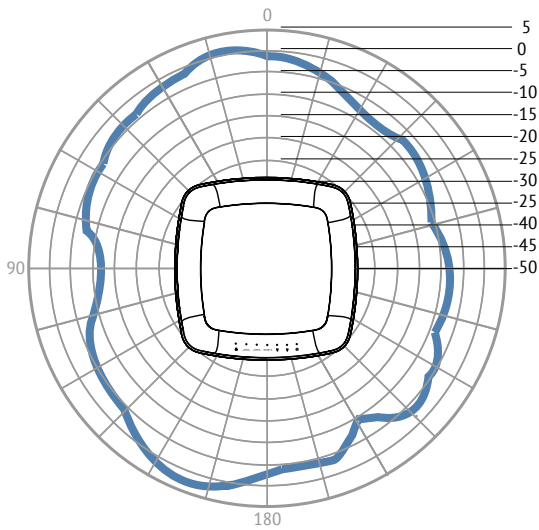
# RADIO 2,5 GHz:

## RF PERFORMANCE TABLE

Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11a	6 Mbps	20 dBm	-87 dBm
	9 Mbps	20 dBm	
	12 Mbps	19 dBm	
	18 Mbps	19 dBm	
	24 Mbps	18 dBm	
	36 Mbps	18 dBm	
	48 Mbps	17 dBm	
	54 Mbps	17 dBm	-71 dBm
802.11n (HT20)	MCS0	20 dBm	-87 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	-68 dBm
802.11ac (VHT20)	MCS0	20 dBm	-87 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	
802.11ac (VHT40)	MCS0	20 dBm	-84 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	-65 dBm
802.11ac (VHT40)	MCS0	20 dBm	-84 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	
	MCS8	16 dBm	
MCS9	16 dBm	-61 dBm	

Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11ac (VHT80)	MCS0	20 dBm	-76 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	-56 dBm
	MCS6	17 dBm	
	MCS7	17 dBm	
	MCS8	16 dBm	
	MCS9	16 dBm	

# RADIATION PATTERNS



# RADIO 3, 5 GHz:

## RF PERFORMANCE TABLE

Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11a	6 Mbps	20 dBm	-87 dBm
	9 Mbps	20 dBm	
	12 Mbps	19 dBm	
	18 Mbps	19 dBm	
	24 Mbps	18 dBm	
	36 Mbps	18 dBm	
	48 Mbps	17 dBm	
	54 Mbps	17 dBm	-71 dBm
802.11n (HT20)	MCS0	20 dBm	-87 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	-68 dBm
802.11ac (VHT20)	MCS0	20 dBm	-87 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	
	MCS8	16 dBm	-65 dBm
802.11n (HT40)	MCS0	20 dBm	-84 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	-65 dBm
802.11ac (VHT40)	MCS0	20 dBm	-84 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	
	MCS6	17 dBm	
	MCS7	17 dBm	
	MCS8	16 dBm	
	MCS9	16 dBm	-61 dBm



Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11ac (VHT80)	MCS0	20 dBm	-76 dBm
	MCS1	20 dBm	
	MCS2	19 dBm	
	MCS3	19 dBm	
	MCS4	18 dBm	
	MCS5	18 dBm	-56 dBm
	MCS6	17 dBm	
	MCS7	17 dBm	
	MCS8	16 dBm	
	MCS9	16 dBm	

## RADIATION PATTERNS

