PA1200

Dual-band Access Point
100% outdoor ready
Cloud managed

PA1200

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

Zero Config Plug-n-Play

Free cloud-based web console for complete management

Water and dust resistant with an IP55 rating

Universal installation kit included

DUAL-BAND ACCESS POINT

Plasma Cloud's universal solution for almost any setup. With dual band & dual stream 802.11ac WiFi in a compact weather resistant housing the PA1200 may serve as office or hotel WiFi backbone, coffee shop hotspot and outdoor WiFi extension.

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.

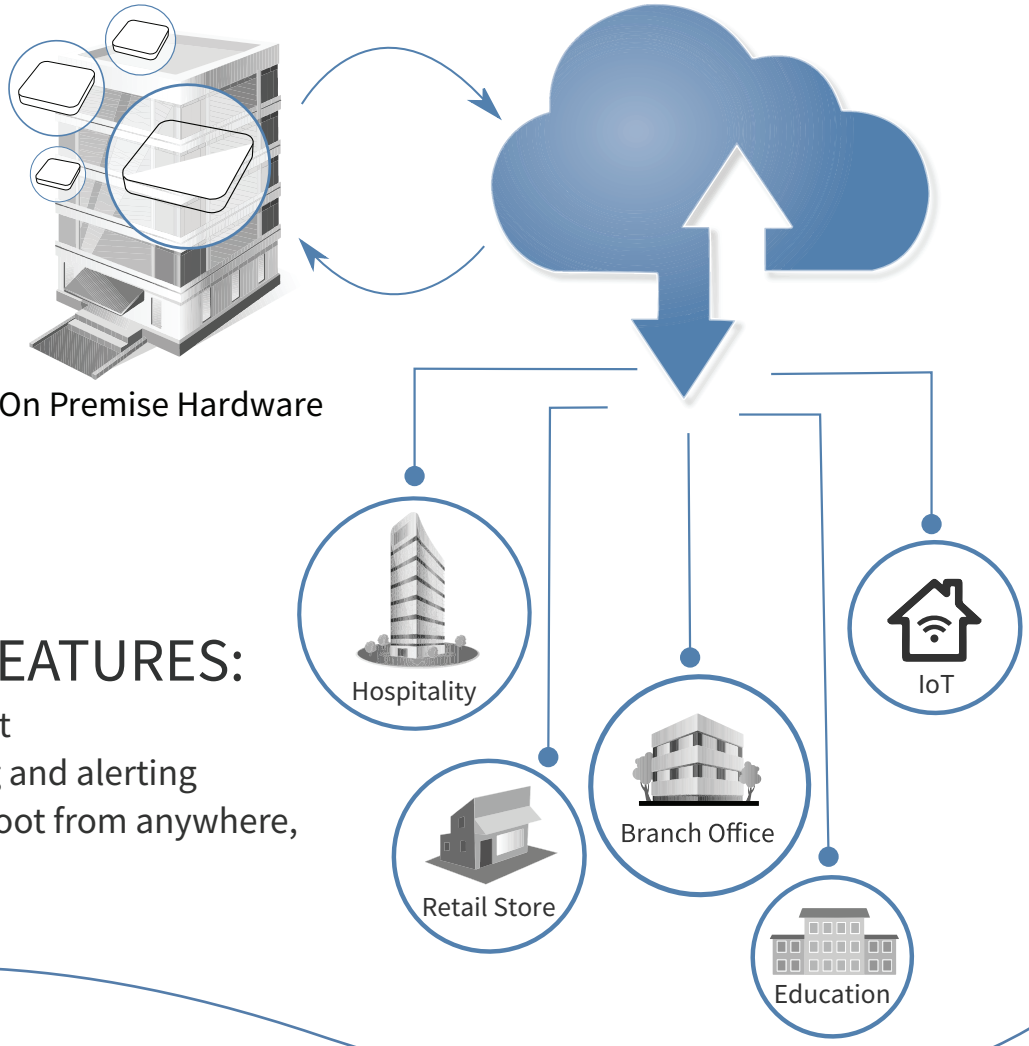
MOUNTING OPTIONS

Regardless where to place the access points – on a wall, ceiling grid, pole, outdoors – 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



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

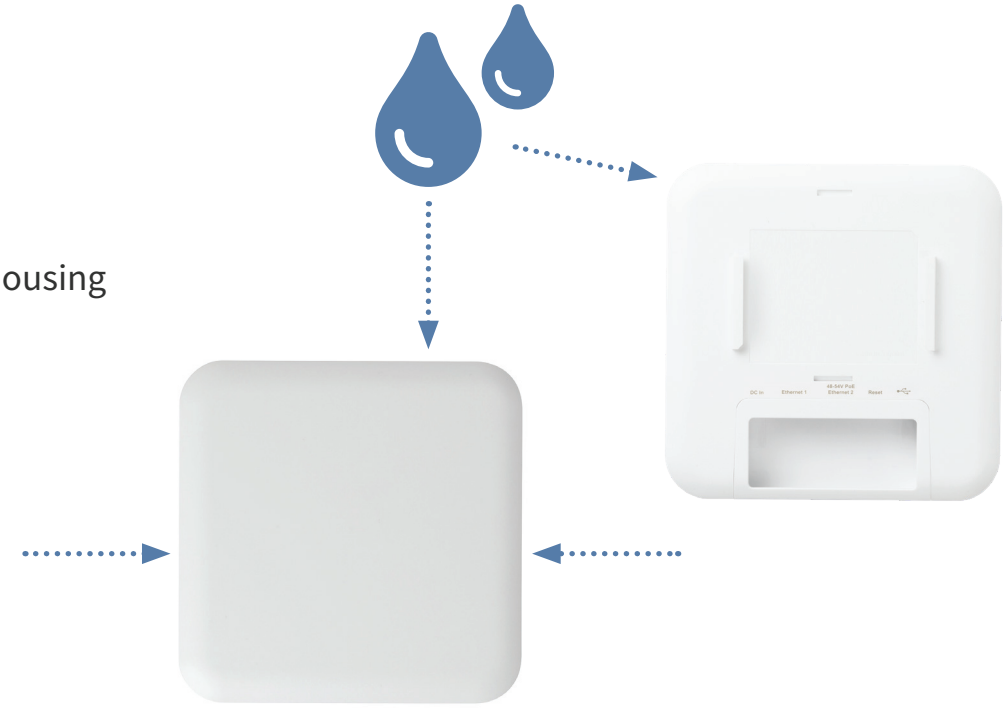
Plasma Cloud is designed for the needs of those tired of endless manual tweaking and cumbersome monitoring. Our smart software is designed to minimize setup effort to the essential and get you started in no time!

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.

HOUSING

- IP55 Certified Outdoor Housing
- Water Resistance



Operating temperature: 0 °C ~ 40 °C

Operating humidity: 0% ~ 90% typical

Storage temperature: -30 °C ~ 80 °C

Water resistant design with sealed top and bottom enclosures and water resistant cable bay allows versatile installation environment including shaded garden, under eaves, outdoor shed, or veranda.

MOUNTING OPTIONS

Wall Mount

Pole Mount

T-rail Mount

Junction Plate

TECHNICAL SPECIFICATIONS

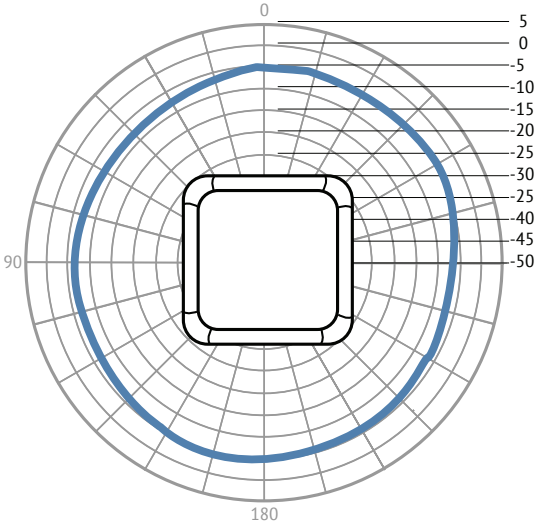
Radio Chains / Streams	2.4 GHz : 2x2 5 GHz : 2x2
Antennas	2.4 GHz : 3.0 dBi 5 GHz : 5.0 dBi
Data Rates	300 Mbps + 867 Mbps
2.4 GHz	2 stream, 802.11 b/g/n (max rate : 300 Mbps)
5 GHz	2 stream, 802.11 a/b/g/n/ac (max rate: 867 Mbps) Wave 2, MU-MIMO
Processor	Qualcomm Dakota IPQ4018
Memory	256 MB DRAM DDR3
Physical Interface	2x 1000Mbps Ethernet ports 1x USB
PoE	802.3af / 802.3at
DC Jack	12-24V / 1A
Power Consumption	Min : 6W Max : 10W (without USB loading)
Indoor / Outdoor Rating	CE marked for indoor / outdoor use, IP55
Dimension (W x D x H)	142 x 142 x 34 mm
Weight	500 g
Operating Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)
Certifications	CE, FCC, IC, RCM
Zero Config Plug-n-Play	Yes
Wireless Mesh Network	Yes
Free Cloud Console	Yes
Free Mobile App	Yes

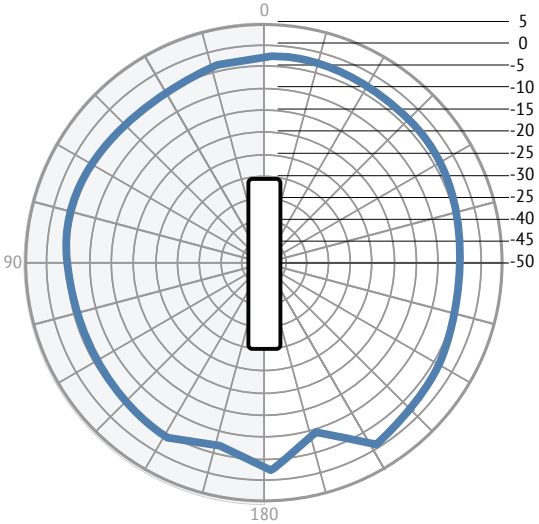
RADIO 1, 2.4 GHz:

RF PERFORMANCE TABLE

Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11b	1 Mbps	25 dBm	-90 dBm
	2 Mbps	25 dBm	
	5.5 Mbps	25 dBm	
	11 Mbps	25 dBm	-82 dBm
802.11g	6 Mbps	25 dBm	-82 dBm
	9 Mbps	25 dBm	
	12 Mbps	25 dBm	
	18 Mbps	25 dBm	
	24 Mbps	25 dBm	
	36 Mbps	24 dBm	
	48 Mbps	23 dBm	
	54 Mbps	23 dBm	-65 dBm
802.11n (HT20)	MCS0	25 dBm	-82 dBm
	MCS1	25 dBm	
	MCS2	25 dBm	
	MCS3	25 dBm	
	MCS4	25 dBm	
	MCS5	24 dBm	
	MCS6	23 dBm	
	MCS7	23 dBm	-64 dBm
802.11n (HT40)	MCS0	24 dBm	-79 dBm
	MCS1	24 dBm	
	MCS2	24 dBm	
	MCS3	24 dBm	
	MCS4	23 dBm	
	MCS5	22 dBm	
	MCS6	21 dBm	
	MCS7	21 dBm	-61 dBm

RADIATION PATTERNS





RADIO 2, 5 GHz:

RF PERFORMANCE TABLE

Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11a	6 Mbps 9 Mbps 12 Mbps 18 Mbps 24 Mbps 36 Mbps 48 Mbps 54 Mbps	24 dBm 24 dBm 24 dBm 24 dBm 24 dBm 24 dBm 23 dBm 22 dBm	-82 dBm -65 dBm
802.11n (HT20)	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7	24 dBm 24 dBm 24 dBm 24 dBm 23 dBm 23 dBm 22 dBm 21 dBm	-82 dBm -64 dBm
802.11ac (VHT20)	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS8	24 dBm 24 dBm 24 dBm 24 dBm 24 dBm 24 dBm 23 dBm 22 dBm 21 dBm	-82 dBm -59 dBm
802.11n (HT40)	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7	24 dBm 24 dBm 24 dBm 24 dBm 24 dBm 23 dBm 22 dBm 21 dBm	-79 dBm -61 dBm
802.11ac (VHT40)	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7 MCS8 MCS9	23 dBm 23 dBm 22 dBm 22 dBm 21 dBm 21 dBm 21 dBm 21 dBm 20 dBm 20 dBm	-79 dBm -54 dBm

Operating Mode	Data Rate	TX Power	RX Sensitivity
802.11ac (VHT80)	MCS0	23 dBm	-76 dBm
	MCS1	23 dBm	
	MCS2	22 dBm	
	MCS3	22 dBm	
	MCS4	21 dBm	
	MCS5	21 dBm	
	MCS6	21 dBm	
	MCS7	21 dBm	
	MCS8	20 dBm	
	MCS9	20 dBm	-51 dBm

RADIATION PATTERNS