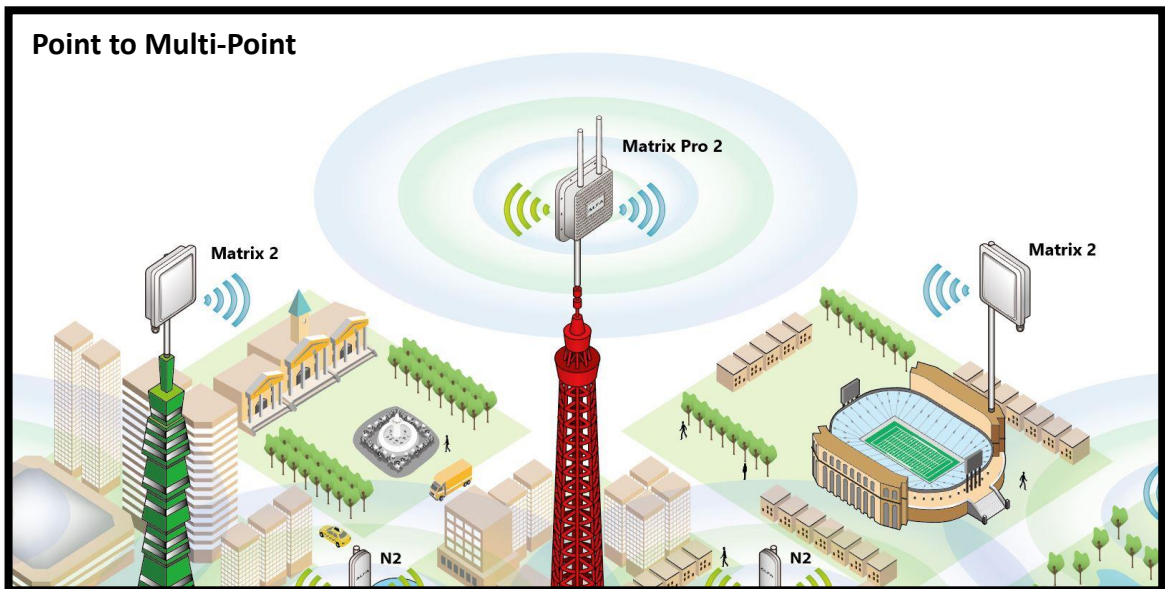# Matrix 2
802.11ac Dual-band Outdoor AP/CPE

The Matrix 2 is the 802.11ac dual-band concurrent outdoor turnkey solution. It operating on 2.4GHz and 5GHz supporting MU-MIMO 2x2 standard. With WDS point to point and WDS point to multi-point wireless bridge to save infrastructure investments.

The Matrix 2 support Gigabit 802.3af PoE allow powered by PoE switch remotely and USB port for GPS/Web Camera/4G modem.

Point to Multi-Point

Matrix Pro 2

Matrix 2

Matrix 2

N2

N2

Point to Point Bridge

Matrix 2

Matrix 2

ALFA NETWORK

Matrix 2

802.11ac Outdoor AP/CPE

Hardware Specifications

Chipset	Qualcomm IPQ4018
Standard	IEEE802.11ac/a/n/g/b BT 4.0
Frequency	WiFi 2.4/5GHz Simultaneous BT 2.4GHz
Data Rate	2.4GHz: 400Mbps 5GHz: 867Mbps
Flash	NOR 16MB NAND 128MB
RAM	DDR3 256MB
LAN Speed	10/100/1000Mbps
Antenna (Build-in)	10dBi@2.4GHz 14dBi@5GHz
Interface	1x PoE Gigabit LAN 1x Gigabit LAN 1x USB Port 1x Reset+LED indicator
Power Source	802.3af/at complaint PoE
Power consumption	9 Watt@full load
Waterproof	IP66

RF Performance

		TX	RX
2.4GHz	11b	24	-84
	11g	21	-73
	11n HT20	20	-72
	11n HT40	20	-69
5GHz	11a	20	-70
	11an HT20	19	-69
	11an HT40	20	-66
	11ac VHT20	19	-64
	11ac VHT40	19	-62
	11ac VHT80	15	-56

Software Features

Wireless Mode	AP Router/AP Bridge/WDS Bridge
WANG	DHCP Client, Static IP
LAN	DHCP on/off
Security	WEP WPA PSK, WPA Enterprise WPA2 PSK, WPA2 Enterprise
Management	Telnet SSH SNMP v1, v2 System log

Wireless features	Up to 16 Multiple SSIDs Enable/Disable Wireless Radio Hide SSID Automatic Channel Assignment TX power control Bandwidth control Wireless isolation between Clients
Testing tool	Ping Traceroute nslookup

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N E T W O R K