

# MatrixPro

## Concurrent Dual-Radios 2.4GHz + 5GHz MIMO Outdoor AP/CPE



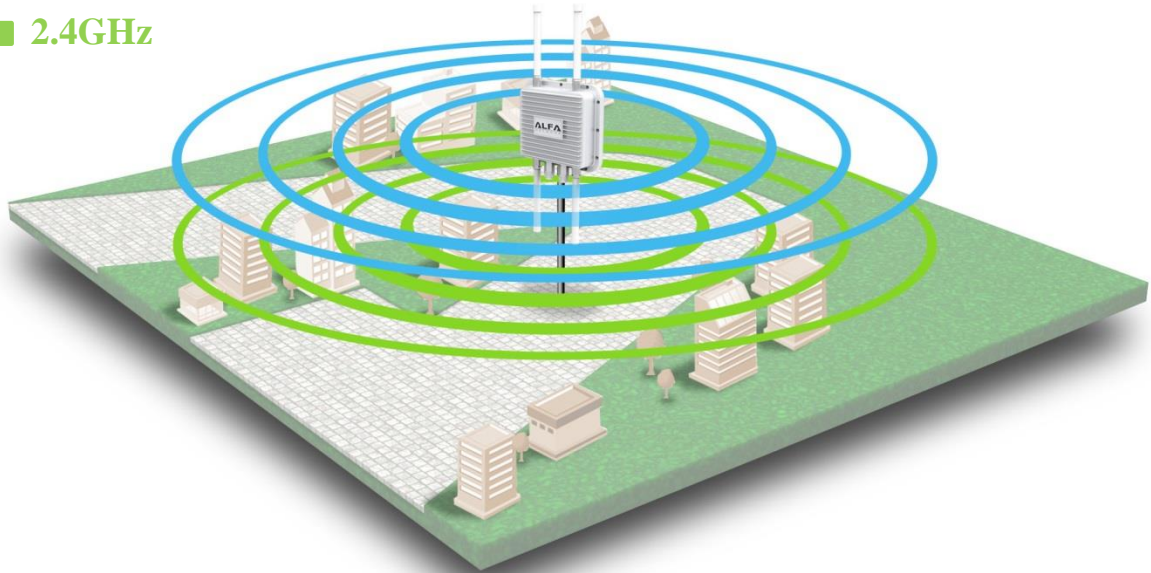
The MatrixPro is the dual-band concurrent outdoor turnkey solution. It operating on 2.4GHz and 5GHz supporting 802.11a/b/g/n MIMO 2x2 standard allowing to cover large area network and provide intelligent broadband services for users. With WDS point to point and WDS point to multi-point wireless bridge to save infrastructure investments.

The MatrixPro support Gigabit 802.3af PoE allow powered by PoE switch remotely.

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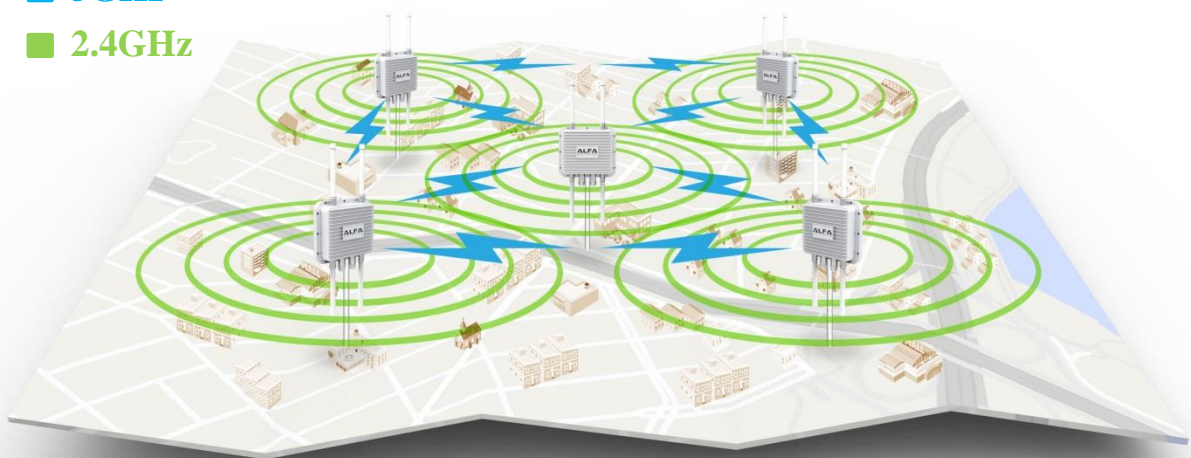
## AP Mode

- 5GHz
- 2.4GHz



## WDS Point to Point Mode WDS Point to Multi-Point Mode

- 5GHz
- 2.4GHz



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## Software Feature

### Wireless

Operation modes: AP mode, WDS Point to Point, WDS Point to Multi-Point  
VAP support up to 16 SSIDs  
Transmit power adjustable  
IEEE 802.11h DFS/DFS2 and automatic TPC  
Traffic Control for each SSID  
Dynamic Channel Selection for noisy environment  
Rate Selection to disable low data rate access  
Client connection preemption ( n> ag >b) in case service capability is full  
Auto-Channel Selection

### Security

WEP 64/128-bits  
WPA / WPA2  
WPA / WPA2 (PSK) over WDS  
Secure SSH, Telnet, SSL, HTTPS  
Access control list  
RADIUS authentication  
EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, EAP-SIM, EAP-AKA  
SSID broadcast disable

### Network Management

IPv4 and IPv6 dual stack support  
Industrial CLI, Telnet, SSH, HTTP and HTTPs  
SNMP V1, V2, V3  
Software upgrade by TFTP, FTP or HTTP  
Configuration file backup and restore by TFTP or FTP  
System Information – AP status, Station status, event logs  
Dual Image  
SNTP  
Scheduling Rebooting  
Radius Accounting

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## Specification

Hardware Spec.			
CPU	Atheros AR9344 ( 560MHz)	Flash / SDRAM	16M/64M
Standards	IEEE 802.11a/b/g/n 2.4GHz and 5GHz IEEE 802.3, IEEE 802.3u, IEEE 802.3ab IEEE 802.3af PoE IEEE 802.11h WiF Multimedia (WMM) Wireless Distribution System (WDS)	Temperature	-40°C ~ 70°C
		Humidity	5%~95% (Non-condensing)
		Power	802.3af Standard PoE
Interface	1x 10/100/1000Base-T Gigabit PoE port 2x System LED 1x Reset Button 2x 2.4GHz N type Connector 2x 5GHz N type Connector	Power Consumption	10.56W
		Dimension	269 x 239 x 68 mm
		Weight	TBD
		Enclosure	IP67 waterproof certified

Radio Spec.				
Frequency	2400 ~ 2485MHz	RX Sensitivity		
	5150 ~ 5825MHz	Legacy Mode	2.4GHz      5GHz	
Data Rates	802.11b: up to 11Mbps	1Mbps	-96	
	802.11a/g: up to 54Mbps	6Mbps	-96	-95
	802.11n: up to 300Mbps	11Mbps	-93	
TX Power	2.4GHz: 27dBm +/- 2dBm 5GHz: 27dBm +/- 2dBm	54Mbps	-81	-81
		MCS 0	HT20: -96 HT40: -92	HT20: -95 HT40: -92
	MCS 7	HT20: -78 HT40: -75	HT20: -78 HT40: -74	
	MCS 15	HT20: -75 HT40: -71	HT20: -74 HT40: -70	