

# VAP8166A 5GHz CPE



## High reliable with multiple functions

VAP8166A is a high-reliable 5GHz CPE product with multiple functions. With the max transmission power of 23dbm, it provides directional 60° panel antenna at 12dBi. Perfect performance and small appearance make it an ideal solution for medium-and-short distance access. As the products' shell meets IP66 standard, that guarantees its normal work in bad environment.

## Specification

Standards	IEEE 802.11 a/n
Radio mode	MIMO 2x2
Radio frequency band	5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)
Transmit power	Up to 23 dBm (country dependent)
Receive sensitivity	Varying between -91 and -65 dBm depending on modulation
Channel size	5,10, 20, 40 MHz
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Error correction	FEC, Selective ARQ
Duplexing scheme	Time division duplex
Antenna type	Integrated directional panel antenna
Gain	12dBi
Wired interface	1 ↑ 10/100Base-T RJ45
Dimension L*D*H )	170mm*137mm*55mm
Weight	300g
Power supply	24V DC passive PoE (24 V passive PoE adapter is included in the package)
Power source	100 – 240 VAC
Power consumption	12W (max)

(max)	
Operating temperature	-40°C (-40 F) ~ +65°C (+149 F)
Humidity	0 ~ 90 %, non-condensing

Output power	802.11a		6-24Mbps	23± 2dBm	
			36-48Mbps	20 ± 2dBm	
			54Mbps	20± 2dBm	
	802.11n	HT20		MCS 0-3	23± 2dBm
				MCS 4	20 ± 2dBm
				MCS 5	20 ± 2dBm
				MCS 6	20 ± 2dBm
				MCS 7	20 ± 2dBm
		HT40		MCS 0-3	23 ± 2dBm
				MCS 4	20± 2dBm
				MCS 5	20± 2dBm
				MCS 6	20 ± 2dBm
				MCS 7	20± 2dBm
		Receive sensitivity	802.11a		6Mbps
	54Mbps			≤-73dBm	
802.11n	HT 20			MCS 0	≤-90dBm
				MCS 7	≤-68dBm
	HT40			MCS 0	≤-87dBm
				MCS 7	≤-65dBm

## Software

Wireless operating modes	Outdoor CPE
Wireless techniques	Smart station polling, AP+WDS, WDS.
Wireless security	WPA/WPA2 personal, WPA/WPA2 enterprise, WACL, user isolation
Network techniques	Routing with and without NAT, VLAN
WAN protocols	IP, DHCP, PPPoE
Services	DHCP server, SNMP server, NTP client, router, monitor
Management	HTTP(S) GUI, SSH, SNMP, Telnet