

### Product Overview

*DC3200 is an Atheros Solution high power industrial use Outdoor CPE with the next generation 802.11ac Wi-Fi standard, combined 1200Mbps Wi-Fi speed over 2.4GHz (300Mbps) and 5GHz (900Mbps), equipped Gigabit WAN port, fast ethernet data rate make more than 100 end users can access into it to enjoy seamless HD movies, streaming, online gaming, wireless security and other bandwidth-intensive tasks.*

### Main Features

- Comply with IEEE 802.11ac/b/g/n, dual band, 1200Mbps Data Rate
- 1 10/100/1000Mbps WAN Port, faster Ethernet.
- 1000mW high power, build in 18dBi MIMO antenna, stronger signal strength, more wireless coverage, 16M Flash, 128M DDR2 RAM, more user, more stable
- Support IEEE 802.3at PoE standard
- Support SSID broadcasting, Multi SSID up to 8 (4 SSID in 2.4GHz, 4 SSID in 5GHz)
- Support Gateway (PPPOE, static IP, dynamic IP), Wireless AP, Repeater, WISP operation mode
- With function of build in firewall, IP filter, URL filter and MAC filter
- Comply with IEEE 802.3az standard, beamforming technology, RF power adjustment and frequency analyzer for better application in different environment
- Support DDNS, VPN pass through, Port forwarding and DMZ host
- Support 64/128-bit WEP security, 128bit WPA (TKIP/AES) security



### **ABS + Metal case, waterproof, dust proof and sunscreen shell, temperature adaptive and board protective**

**DC3200** with ABS waterproof, dust proof and sunscreen shell, avoid the damage from dust, thunderstorm weather. Meantime, it adaptive to various environment, the working temperature can be normal at -40°C to 70°C. Suit for any country.

### **High Power for more range and stable signal**

Designed in two line Power Amplifier on PCB board, the power can be 1000mW high power, 18dBi MIMO high gain antenna, the wifi range is can be 10KM distance, greatly increase the wifi range and supply the stable wifi signal for users.

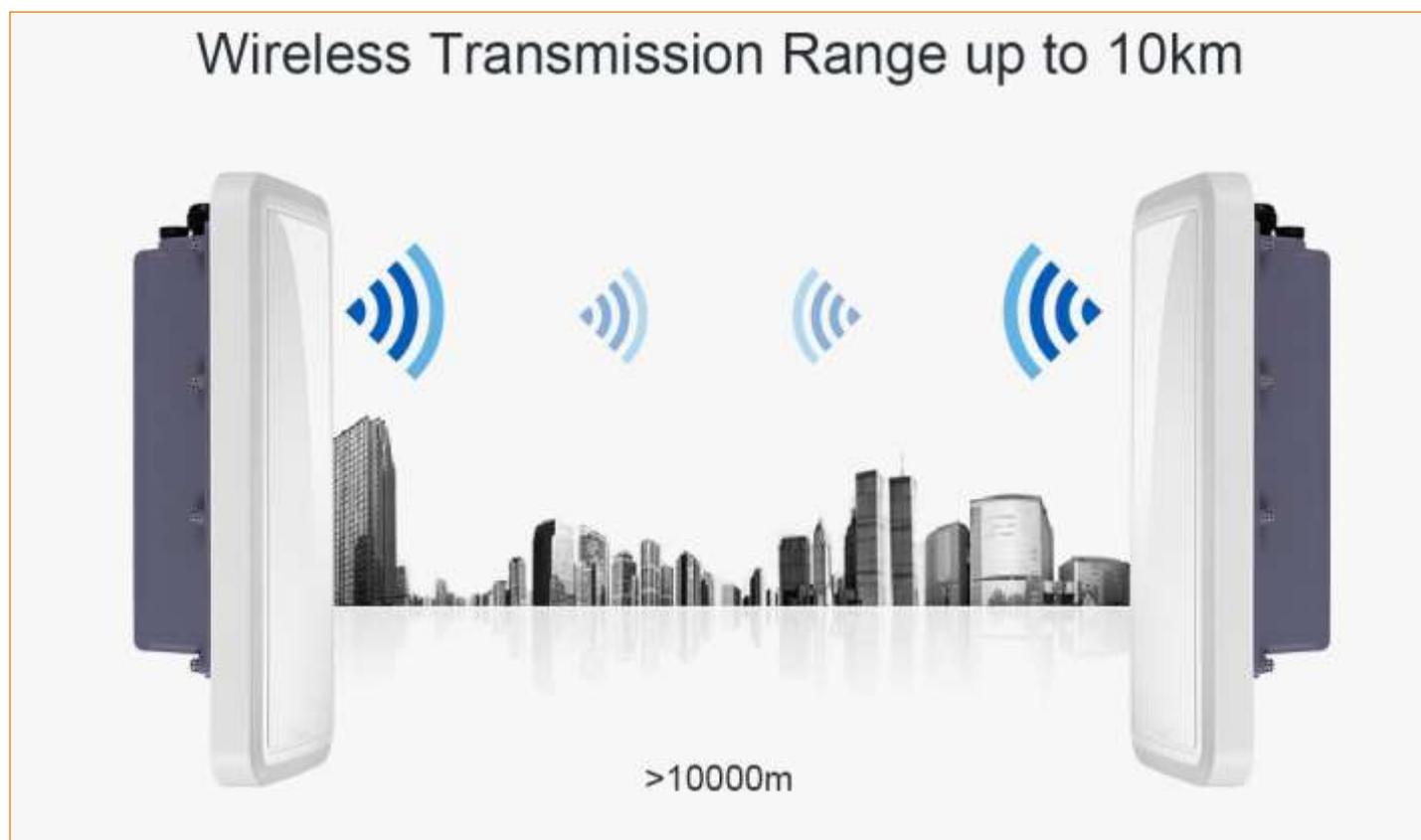
### **Power over Ethernet**

**DC3200** has integrated IEEE802.3at Power over Ethernet (PoE), for easy installation and lower cost. So it can be installed in areas where power outlets are not readily available, eliminating the mess of altering existing network infrastructure.

### **Access Controller System & Cloud Management System**

Work with WLAN controller in wireless AP operation mode, easily access advanced network settings through PC, like AP status monitor, change IP address, ESSID, Channel, Password, upgrade firmware, backup and restore....

Then work with Cloud Management System, easy to do central and remote management, advertisement and multi authentication make this device more professional in WiFi Projects.



### SPECIFICATIONS

Hardware							
Chipset	Atheros QCA9563 + QCA9882 +QCA8334						
Standard	802.11ac/b/g/n, MIMO technology						
Memory	128MB DDR2 RAM						
Flash	16MB						
Interface	1 * 10/100 /1000Mbps RJ45 WAN Port						
	1 * Reset button, press 15 seconds to revert to default setting						
Antenna	Build in 18dBi Panel Antenna						
Power consumption	48V PoE<30W						
Size	L: 410mm, W: 20.5mm, H: 105 mm						
Weight	3KGS						
RF Data							
Frequency	2.4G:802.11b/g/n: 5GHz : 802.11a/n/ac						
	2.4GHz、5GHz						
Country code	FCC、IC、ETSI、MKK、MKK1、MKK2、MKK3、NCC、RUSSIAN、CN						
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM						
	DSSS = DBPSK, DQPSK, CCK						
Throughput	1200 Mbps						
Receive Sensitivity & RF Power							
Frequency	Mode	Data Rate	Standard	Result(dBm)			RF Power (±1.0dBm)
				CH1	CH6	CH11	
2.4GHz	11b	1Mbps	≤-83	-99	-99	-99	29dBm
		11Mbps	≤-76	-92	-92	-92	
	11g	6Mbps	≤-85	-95	-95	-95	29dBm
		54Mbps	≤-68	-82	-82	-82	27dBm
	11n HT20	MCS0/8	≤-85	-95	-95	-95	28dBm
		MCS7/15	≤-67	-79	-77	-78	26dBm
	11n HT40	MCS0/8	≤-82	-93	-93	-93	28dBm
		MCS7/15	≤-64	-75	-75	-75	26dBm
5GHz	11a	6Mbps	≤-85dBm	-92	-92	-92	26dBm
		54Mbps	≤-68dBm	-75	-75	-75	23dBm
	11n HT20	MCS0/8	≤-85dBm	-91	-91	-91	26dBm
		MCS7/15	≤-64dBm	-72	-72	-72	23dBm
	11n HT40	MCS0/8	≤-82dBm	-88	-88	-88	26dBm
		MCS7/15	≤-61dBm	-70	-70	-70	23dBm
	11ac HT20	MCS0	≤-82	-92	-92	-92	26dBm
			≤-60	-70	-70	-69	23dBm
		MCS8	≤-79	-90	-89	-89	25dBm
			≤-60	-66	-65	-65	22dBm
	11ac HT40	MCS0	≤-79	-87	-87	-87	24dBm
		MCS9	≤-54	-62	-61	-61	21dBm
	11ac HT80	MCS0	≤-79	-87	-87	-87	24dBm
		MCS9	≤-54	-62	-61	-61	21dBm

Firmware Features	
Operation mode	Wireless AP, Gateway, WISP, WiFi Repeater
WAN Type	Dynamic IP/Static IP/PPPoE/L2TP(Dual Access) /PPTP(Dual Access)
Wireless Security	64/128-bit WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption
SSID	Multiple SSID (4 SSID for 2.4G, 4 SSID for 5.8G)
Firewall	DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter IP and MAC Address Binding
Protocols	IPv4
Others	
Package Contents	1200Mbps Dual Band wireless access point Ethernet Cable Quick Installation Guide Setting Accessory
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux
Environment	Operating Temperature: 0~40 °C(32 °F~104°F) Storage Temperature: -40~70 °C (-40 °F~158°F) Operating Humidity: 10%~90% non-condensing; Storage Humidity: 5%~90% non-condensing
Management	Firmware GUI , Remote Management, WLAN Controller, Cloud Management System

### Antenna Specifications

Electrical Specifications	
Frequency range (MHz)	2400~2500 / 5725~5850
Polarization	Vertical and Horizontal
Gain (dBi)	2x15 / 2x18
Half-power beam width (°)	H: 60/14 V:60/7
Front-to-back ratio (dB)	≥25
Input Impedance (Ω)	50
VSWR	≤1.5
Isolation between ports	≥28dB
Cross-polar ratio	≥15dB@0° ≥10dB@+/-60°
Sidelobe suppression for first sidelobe above horizon	15 dB
Maximum input power (W)	100
Lightning protection	DC Ground
Mechanical Specifications	
Input connector type	4-N Female
Dimensions-mm (Height/Width/Depth)	450*253*35
Packing size (mm)	485*280*70
Antenna weight (kg)	1.8
Radome material	ABS
Radome color	White
Mechanical tilt (°)	0~10
Operating temperature (°c)	-40~60
Rated Wind Velocity (m/s)	60
Mounting hardware (mm)	Φ 30~ Φ 50