

Radio Specification				
Chipset Solution	RF: Atheros AR9285 CPU: AR7240 (400MHz)			
Antenna – Default configuration	8dBi integrated directional antenna (vertical pol.)			
External RF connector	N type male connector – switchable by software			
Antenna Configuration	1 * 1 (1 Tx, 1 Rx)			
Memory	Flash		DDR	
	8MB		32MB	
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM / DSSS: DBPSK, DQPSK, CCK			
Available Data Rates (Mbps)	IEEE 802.11b – 11, 5.5, 2, 1			
	IEEE 802.11g – 54, 48, 36, 24, 18, 12, 9, 6			
	IEEE 802.11n (draft) – 135, 130, 121.5, 117, 108, 104, 81, 78, 65, 58.5, 54, 53, 40.5, 39, 27, 26, 19.5, 13.5, 13, 6.5, 6			
RF Frequency	USA (FCC)		Europe (ETSI)	
	2.412GHz – 2.462GHz (Channels 1-11)		2.412GHz – 2.472GHz (Channels 1-13)	
	IEEE 802.11gn HT40 ISM band			
	2.422Ghz – 2.452GHz (Channels 3-9)		2.422Ghz – 2.462GHz (Channels 3-11)	
Average RF Output Power ($\pm 1.5\text{dB}$)* <i>*actual power may vary based on regulatory requirements</i>	802.11b	26 \pm 1.5dBm		
	802.11g	6-24Mbps	26 \pm 1.5dBm	
		36-48Mbps	25 \pm 1.5dBm	
		54Mbps	24 \pm 1.5dBm	
	802.11n	HT20	MCS 0-3	26 \pm 1.5dBm
			MCS 4	25 \pm 1.5dBm
			MCS 5	24 \pm 1.5dBm
		HT40	MCS 6	23 \pm 1.5dBm
			MCS 7	22 \pm 1.5dBm
			MCS 0-3	26 \pm 1.5dBm
			MCS 4	25 \pm 1.5dBm
	MCS 5	23 \pm 1.5dBm		
	MCS 6	22 \pm 1.5dBm		
MCS 7	21 \pm 1.5dBm			
Receiver Sensitivity	802.11b	802.11g	802.11n	
	1Mbps: $\leq -93\text{dBm}$	54Mbps: $\leq -73\text{dBm}$	HT20/MSC0 $\leq 88\text{dBm}$ HT40/MSC0 $\leq 84\text{dBm}$	
Regulatory Compliance	FCC Part 15, CE EN300 328, EN301 489-1/17, EN60950			
Standards Compliance	IEEE 802.11bgn, WiFi certificate			

Physical Specification	
Dimension	165mm(l)x60mm(w)x34mm(h)
Weight	$\leq 400\text{g}$
Enclosure	IP55 Plastic

Electrical Specification	
Reset Button	Reset to factory default
Power Requirements	12VDC @ 1 A (switching)
PoE	Passive 12V PoE
Power Consumption	≤ 900mA @ 12VDC
LED Definition	Power: Green on = system on, Green off = system off, Amber blinking = Initializing
	LAN: Off = no Ethernet, On = connection established, Blinking = sending, receiving
	WLAN (AP Mode) Off = disabled, On = WLAN enabled, Blinking = WLAN activity
	WLAN (Client Mode) All Off = WLAN disabled, Green blinking = good connection Yellow blinking = Acceptable quality, Red blinking = poor connection quality

Environmental Specification	
Operating Temperature	-20°C ~ 70°C
Storage Temperature	-30°C ~ 80°C
Operating Humidity (non-condensing)	10 to 95 % RH
Green	RoHs Compliant

Firmware Specification			
Function		Detail	Default setting
Web Language		English	English
Firmware Upgrade Method		Web upgrade via Ethernet or Wireless port / TFTP upgrade via Ethernet port	
Status		Information	
		Statistics for Wireless and Ethernet	
		Connection status	
System	Basic Settings	Device Name	APXXXXXX
		Country/Domain	USA FCC
		Time NTP	Disable
	IP Settings	IP Address assignment (DHCP/Manual)	DHCP / 192.168.1.1, DHCP is the default, however when server is not present the unit reverts to 192.168.1.1
	RADIUS	Accounting and Authentication	Disable
Wireless	Basic Wireless Settings	Operation mode (AP / CPE)	AP
		AP mode functions	
		1. SSID	Wireless
		2. Hide SSID (enable/disable)	Disable
		3. Channel select (1-11)	1
		4. Client limitations (0~32)	32
		5. Wireless client isolation (enable/disable)	Disable
		6. Tx flow control (1~2400*64Kbps)	1687
		Client mode functions	
1. SSID	Any		

		2. CPE with Multi-Client support	Enable
		3. Tx Flow control by AP (enable/disable)	Disable
		Wireless mode	802.11b/g/n
		Data Rate Selection 1-54Mbps & MCS0-7	Best
	Security Settings	<ul style="list-style-type: none"> • Open system • Shared Key (64/128/152-bits WEP) • 802.1X only • WPA • WPA2 • WPA-PSK(TKIP) • WPA2-PSK(AES) 	Open System
Access Control	Allow / Deny STA list STA Flow control for allowed stations	Disable	

Firmware Specification			
Function		Detail	Default setting
System	Advanced Settings	Radio on / off	On
		<ul style="list-style-type: none"> • Allow / Deny Station list • Station Flow control for allowed stations Supports up to 32 stations	Disable
		WMM Regatta Mode (enable/disable)	Disable
		Output power control: Options (full, 50%, 25%, 12.5%, min)	Full
		Fragmentation Length (256~2346)	2346
		Beacon Interval (20 ~ 10000ms)	100
		RTS/CTS threshold (0~2346)	2346
		DTIM Interval (1-255)	255
Management	Password	Change Password	Password
	Remote Management	Embedded Web configuration management	Enable
		Telnet support (password-protected telnet access to internal configuration manager)	Enable
		SNMP management	Enable
	Configuration	<ul style="list-style-type: none"> • Web backup and restore configuration • Reset to factory default • Reboot 	
Tools	Event Log		
	Site Survey		

Warranty Information	
Time covered	1 Year from time of purchase
Terms	Repair or replacement