

# AR9344 5.8GHz High Power CPE PCBA

Hardware Specifications					
Features		Instructions			
CPU		AR9344			
Ethernet		IEEE802.3u MDI / MDIX 10/100			
Wireless		IEEE802.11a/n			
Memory		64M RAM 8M FLASH			
POE Power		DC12V~18V（Can support 30-50 meters cable power supply）			
CPU frequency		533MHz			
Gain		14dBi（Directional dual polarized antenna）			
Horizontal Beamwidth		60°			
Vertical Beamwidth		25°			
Ethernet interface		10/100Mbps			
Reset Button		The device to restore factory settings			
System Upgrade		Through the web site upgrade;			
Throughput		90Mbps Net Throughput			
Interface		2X10/100Base - T interface, RJ - 45 with POE LED: Power/WAN/LAN/WLAN//RSSI x4			
Power		DC12V~18V			
Data rate		11a: 54M, 48M, 36M, 24M, 18M, 12M, 9M, 6Mbps HT20:7.2M,14.4M,21.7M,28.9M,43.3M,57.8M,65M,72.2M,14.4M,28.9M,43.3M,57.8M,86.7M,115.6M,130M,144.4M HT40:15M,30M,45M,60M,90M,120M,135M,150M,30M,60M,90M,120M,180M,240M,270M,300M			
Transmission mode		DSSS			
Modulation		OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK			
Frequency Range		5180 MHz ~ 5825 MHz (channel 36~ channel165)			
Power consumption		≦ 10W			
RF Power @25℃ (±2dB)		802.11a	6-24Mbps		27 ± 2dBm
			36-48Mbps		26 ± 2dBm
			54Mbps		25± 2dBm
		802.11n	HT20	MCS 0-3	26 ± 2dBm
				MCS 4	26 ± 2dBm
				MCS 5	25.5 ± 2dBm
				MCS 6	25 ± 2dBm
				MCS 7	24.5 ± 2dBm
			HT40	MCS 0-3	26 ± 2dBm
				MCS 4	25.5± 2dBm
				MCS 5	25± 2dBm
				MCS 6	24.5 ± 2dBm
MCS 7	24 ± 2dBm				
Receiver sensitivity		IEEE 802.11a		IEEE 802.11n	
		6Mbps ≦ -89dBm 54Mbps ≦ -73dBm		HT 20 MCS 0 ≦ -86dBm MCS 7 ≦ -68dBm HT 40 MCS 0 ≦ -83dBm MCS 7 ≦ -65dBm	

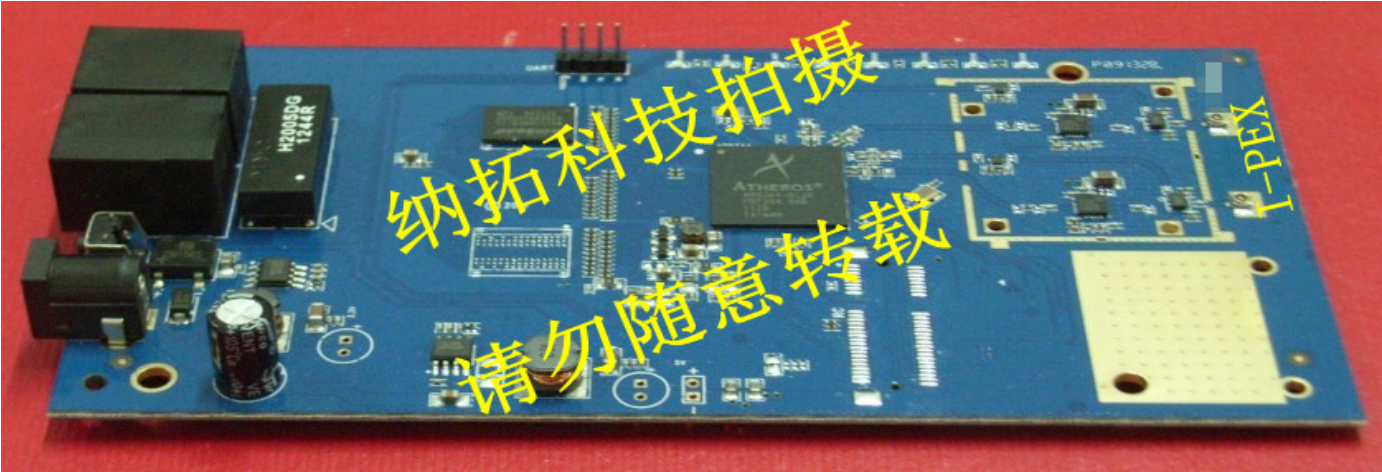
Software specifications			
Features		Instructions/default values	
Standard		IEEE 802.3 and 802.3u 10Base-T 与100Base-TX IEEE 802.11a/n	
Antenna		Select Built-in(14dBi) Through I-PEX	
Country Region		Thailand/Brazil/China/ETSI/Japan/FCC	
Status		Status / Bridge / DHCP Client List	
System	Basic Setup	Operation mode	Bridge, WISP
		802.1d spanning tree protocol	Usable
		STP Forward Delay	STP Forwarding delay
System Status	System Status	Select Language	English/China
	WAN Physical Status	Network connection type	DHCP
		IP Address	
		Default Gateway	
		Internet connect time	
	LAN Status	IP Address	192.168.0.1
		DHCP Server	Enabled
Wireless	WLAN Status	Mode	Station(Scanning)
		SSID	N/A
		Encryption	open
	Basic Settings	Radio Status	Disabled; Enabled
		Mode	Station, WDS Station, AP+WDS
		SSID	airmetsuperbroadband(default)
		Encryptions	open, ,WEP,WPA-PSK,WPA2-PSK
		Internet Access Setup	Bridge, DHCP, Static IP,PPPOE
	Advanced Settings	Country Region	Thailand/Brazil/China/ETSI/Japan/FCC
		Band	Auto, a, n 20MHz,n 40MHz-,n 40MHz+
		Fragment Threshold	256—2346 (default 2346)
		RTS Threshold	0—2347 (default 2346)
		ACK Timeout Control	0—255us(default 64)
		Aggregation	Enabled
		Short GI	Enabled
		RF Output Power	100%,50,25%,12.5%,6%
TCP/IP	LAN Status	IP Address	192.168.0.1
		Subnet Mask	255.255.255.0
		Default Gateway	N/A
		DHCP Server	Enabled
		DHCP Range	192.168.0.2~192.1680.253
		MACaddress	00:03:7f:aa:bb:0d
		DHCP Client List	IP Address, MAC Address, Time Expired(sec)
	LAN Setting	IP Address	192.168.0.1
		Subnet Mask	255.255.255.0
		Default Gateway	0.0.0.0
		DHCP Server	Enabled, Disabled
		DHCP Client Range	192.168.0.2~192.1680.253
		Lease Time(sec)	86400

Firewall	IP/Port Filtering	IP/Port Filtering		Disabled, Blacklist, Whitelist	
		IP Address Range			
		Port Range			
		Protocol		TCP/UDP/TCP+UDP	
		Time Control			
		Comment			
	MAC Filtering	MAC Filtering		Disabled, Blacklist, Whitelist	
		MAC Address			
		Time Control			
		Comment			
	Port Forwarding	Port Forwarding		Disabled, Enabled	
		IP Address			
		Protocol		TCP/UDP/TCP+UDP	
		Local Port Range			
		Wan Port Range			
		Comment			
	DMZ	DMZ		Disabled	
				Enable DMZ	DMZ Host IP Address
	QoS	QoS	QoS	Disabled, Enabled	
			Bandwidth	UP Link, Down Link	
		QoS Rule Settings	IP Address Range		
			MAC Address		
			Mode		
			Bandwidth		
			Comment		
		DDNS	Service Provider		
	Domain Name				
	User Name/Email				
	Password/Key				
Management	LOG	System Log			
		Remote Log Server			
	Upgrade Firmware	Firmware Version			
		Build Time			
		Select File			
	Save/Reload Settings	Save Settings			
		Upload Settings			
		Reset Settings			
		System Reboot			
	Password	New Password			
		Confirmed Password			
Logout					

Mechanical Specifications	
Features	Instructions
Dimnsion	160 (Long) × 80(Wide) ×15(High)mm

Environmental specifications	
Features	Instructions
Working Temperature	-20~+70°C
Working Humidity	10%~95% RH
Storage Temperature	-40~+85°C
Storage Humidity	10%~95% RH
Lightning Protection	Common mode:1.5KV, differential mode:1KV

PCBA Picture



## Web Interface

http://192.168.0.1/cgi-bin/login Login

无线 (P) 安全 (S) 工具 (O)

wireless

用户名: admin  
密码: \*\*\*\*\*  
登录

http://192.168.0.1/cgi-bin/login Wireless Router

无线 (P) 安全 (S) 工具 (O)

wireless

Z CPE008

- System Status
- Wireless
- TCP/IP
- Firewall
- Management

**Status**

Select Language: English

**WAN Physical Status**

Attain IP Protocol: (DHCP) -Getting IP from DHCP server...  
IP Address: 0.0.0.0  
Default Gateway: 0.0.0.0  
DNS:  
Internet connect time: 0day 0hour 0minutes 0second

**LAN Status**

IP Address: 192.168.0.1  
DHCP Server: Enabled

**WLAN Status**

Mode: Station(Scanning) Scan AP  
Signal Strength: 0%(-96dBm)  
SSID:  
Encryption: Open

**Other**

Firmware Version: Z-CPE008-2.0.8  
Build Time: 20131011  
System uptime: 0day 0hour 3minutes 11second

http://192.168.0.1/cgi-bin/login Wireless Router

无线 (P) 安全 (S) 工具 (O)

wireless

Z CPE008

- System Status
- Wireless
  - Wireless Status
  - Basic Settings
  - Advanced Settings
- TCP/IP
- Firewall
- Management

**WLAN Status**

Mode: Station(Scanning)  
Signal Strength: 0%(-96dBm)  
Channel-Band: 11A channel(149)  
Rate: 0Mbps  
SSID:  
BSSID: 00:00:00:00:00:00  
Encryption: Open  
MAC Address: c8:ee:a6:00:25:83

**Wireless Station Table** Refresh

MAC Address	IP Address	Band	Signal Strength	TX Rate (Mbps)	TX Packets	RX Packets	Link Time(s)	WMM
-------------	------------	------	-----------------	----------------	------------	------------	--------------	-----

http://192.168.0.1/cgi-bin/login Wireless Router

无线 (P) 安全 (S) 工具 (O)

wireless

Z CPE008

- System Status
- Wireless
  - Wireless Status
  - Basic Settings
  - Advanced Settings
- TCP/IP
- Firewall
- Management

**Wireless Advanced Settings**

Country Region: China,ETSI Channel(149-165)  
Band: Auto  
TX/RX Chain: 2x2  
Fragment Threshold: 2346 (256-2346)  
RTS Threshold: 2346 (0-2347)  
Distance: 3.2 (km)  
Ack Timeout Control: 64 us  
Aggregation: ☐ Disabled ☒ Enabled  
Short GI: ☐ Disabled ☒ Enabled  
RF Output Power: ☒ 100% ☐ 50% ☐ 25% ☐ 12.5%

Apply Changes Cancel