WI-CPE214SMA
2.4GHz 300Mbps
Outdoor CPE/Station
Data sheet

Highlights

- 640mW High power output, coverage up to 20KM for PTP and PTMP application
- Wireless N speed up to 300Mbps
- Support open frequency from 2300 to 2700 MHz
- 2*SMA connector support external Omni and directed external antenna
- 28dBm High-Power design
- 2x2 MIMO Technology
- Passive PoE Adapter supports up to 100 meter
- 2 PoE Port design, support PoE Pass-through
- Qualcomm AR9344 600MHz Chipset,64MB RAM
- Super TDMA Technology

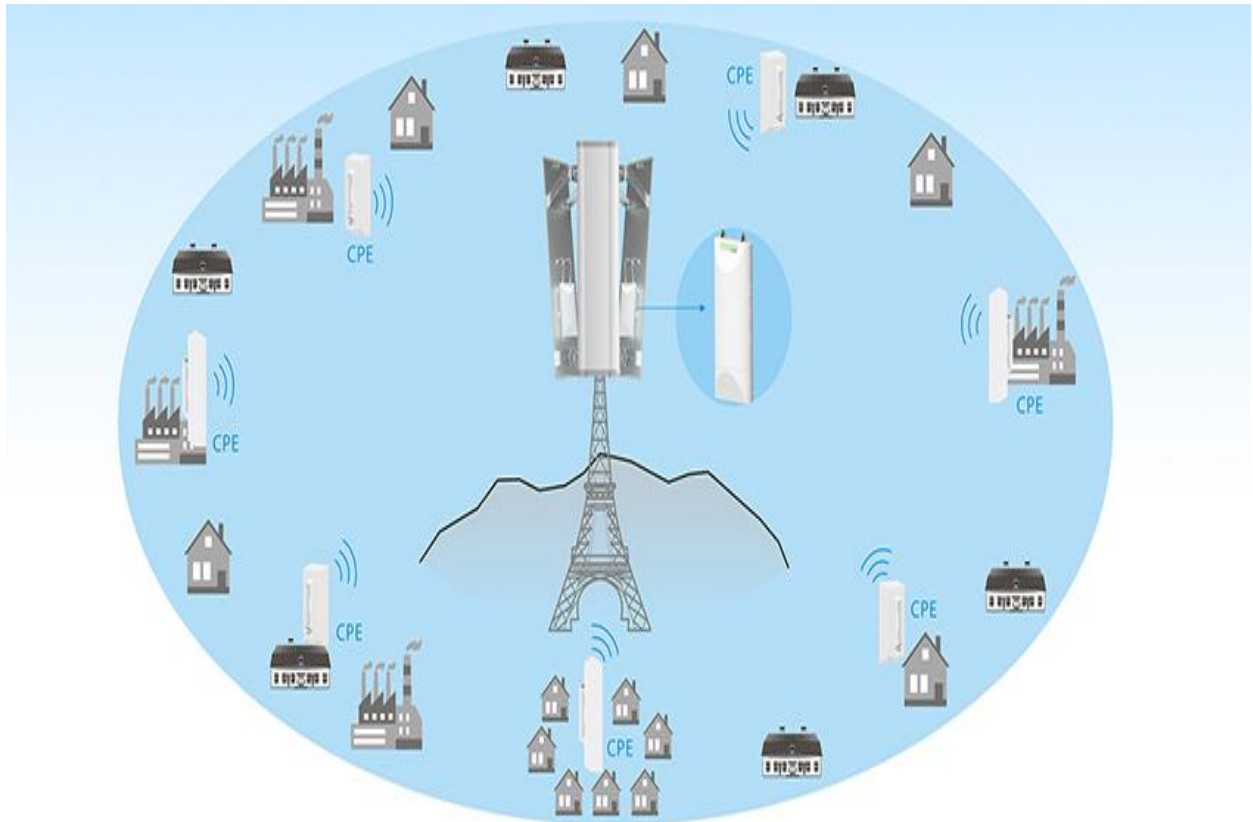| Tx Power Specs				Rx Power Specs			
	Data Rate	Tx Power	Tolerance		Data Rate	Sensitivity	Tolerance
802.11b/g	1-24Mbps	28 dBm	±2dB	802.11b/g	1-24Mbps	-83 dBm	±2dB
	36Mbps	26 dBm	±2dB		36Mbps	-80 dBm	±2dB
	48Mbps	25 dBm	±2dB		48Mbps	-77 dBm	±2dB
	54Mbps	24 dBm	±2dB		54Mbps	-75 dBm	±2dB
802.11n	MCS0	28 dBm	±2dB	802.11n	MCS0	-96 dBm	±2dB
	MCS1	28 dBm	±2dB		MCS1	-95 dBm	±2dB
	MCS2	28 dBm	±2dB		MCS2	-92 dBm	±2dB
	MCS3	28 dBm	±2dB		MCS3	-90 dBm	±2dB
	MCS4	27 dBm	±2dB		MCS4	-86 dBm	±2dB
	MCS5	25 dBm	±2dB		MCS5	-83 dBm	±2dB
	MCS6	23 dBm	±2dB		MCS6	-77 dBm	±2dB
	MCS7	22 dBm	±2dB		MCS7	-74 dBm	±2dB
	MCS8	28 dBm	±2dB		MCS8	-95 dBm	±2dB
	MCS9	28 dBm	±2dB		MCS9	-93 dBm	±2dB
	MCS10	28 dBm	±2dB		MCS10	-90 dBm	±2dB
	MCS11	28 dBm	±2dB		MCS11	-87 dBm	±2dB
	MCS12	27 dBm	±2dB		MCS12	-84 dBm	±2dB
	MCS13	25 dBm	±2dB		MCS13	-79 dBm	±2dB
	MCS14	23 dBm	±2dB		MCS14	-78 dBm	±2dB
	MCS15	22 dBm	±2dB		MCS15	-75 dBm	±2dB

Product

Description

Wi-Tek's WI-CPE214SMA is a 2*2 MIMO Hi-Power outdoor wireless base station based on OFDM and TDMA modulation technology. It is flexible detachable antenna design with high performance, cost-effective and dedicated to long distance wireless network solutions. Featuring the revolutionary Wi-Tek TDMA technology, WI-CPE214SMA helps to get more clients accessed than legacy WiFi technology and greatly improve the network scalability in throughput and latency. The detachable antenna design would help it seamlessly work with Wi-Tek outdoor antennas. WI-CPE214SMA is best applied to rural wireless Internet, wireless hotspot and other industrial wireless solutions. WI-CPE214SMA is widely used in various fields of communication:

◆Point-to-point Point-to-multipoint wireless communication

◆Wireless Video Surveillance

◆Enterprise wireless LAN interconnection

◆Mobile operators WISP large customer access system

◆Wi-Fi Wireless city coverage

Typical Applications

Specifications

HARDWARE FEATURES	
Processor	Qualcomm AR9344

Memory	64MB SDRAM 8MB Flash
Interface	2X10/100BASE-TX Ethernet Interface
Power Supply	24V Passive PoE Adapter Included
Power Consumption	8W
Dimensions (H x W x D)	260x100x60mm
Antenna Type	2 SMA Connector for external antenna
Protection	10KV Lightning Protection
Enclosure	Outdoor UV Stabilized Plastic IP65 waterproof Certification

WIRELESS FEATURES	
Wireless Standards	802.11b/g/n
Protocol	CSMA/CA,TCP/IP,IPX/SPX, NetBEUI, DHCP TDMA
Wireless Mode	AP, WDS
Wireless Speeds	11a:54M,48M,36M,24M,18M,12M,9 M,6Mbps 11n:6.5M, 13M, 13.5M, 19.5M,

WIRELESS FEATURES	
	26M，27M，39M，40.5M，52M，54M，58.5M，65M，81M，108M，121.5M，135M，150M，270M，300Mbps
Frequency	2300-2700MHz
Transmission Power	28dBm(640mW)

SOFTWARE FEATURES	
Wireless Configurations	802.11b/g/n Modes Selectable Channel Width: 20/40MHz Automatic Channel Selection Transmission Power Control Dynamic Frequency Selection (DFS) WDS Enable/Disable Security: WPA/WPA2, WPA-PSK/WPA2-PSK (AES/TKIP) Encryption, 64/128/152-bit WEP Encryption SSID Broadcast Enable/Disable Distance/ACK Timeout Setting Wireless MAC Address Filter Wireless Advanced: > Beacon Interval/RTS Threshold/Fragmentation >Threshold/DTIM Interval/AP Isolation/Short GI/Wi-Fi Multimedia
Management	WEP management
System-level Optimizations	Optimized IGMP Snooping/Proxy for multicast applications Hardware watch dog

OTHERS	
Certification	CE
Package Contents	1*CPE 1*PoE Adapter 1* Pole Mounting Kit included
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 10, Windows 8, Windows 7, MAC OS, NetWare, UNIX or Linux. Note: We recommend you to use one of following Web browsers for an improved user experience: Google Chrome, Safari, and Firefox. IE browsers are not recommended.
Environment	Working Temp: -40 ~ 70°C Storage Temp: -40 ~85°C Working Humidity: 10%~95% non-condensing

WI-TeK Communication Solution

WIRELESS-TEK TECHNOLOGY LIMITED
www.wireless-tek.com
Email: sales@wireless-tek.com
Technical Support: tech@wireless-tek.com