



**WI-CPE515**  
**5.8GHz 300Mbps**  
**Outdoor CPE Data sheet**

## Highlights

- 500mW High power output, coverage up to 10KM for PTP and PTMP wireless CCTV application
- 10KM wireless transmit for Carry 8-10pcs 1080P camera
- auto-connect for PTP/PTMP application, no need setting software
- Wireless A/N speed up to 300Mbps
- Support open frequency from 4920 to 6100 MHz
- Inside 60 degree 16dBi Directional Antenna Technology
- 27dBm High-Power design
- 2x2 MIMO Technology
- Passive PoE Adapter supports up to 100 meter
- Atheros AR9344 600MHz Chipset, 64MB RAM
- 10KV Lightning Protection
- Super TDMA Technology



Tx Power Specs				Rx Power Specs			
	Data Rate	Tx Power	Tolerance		Data Rate	Sensitivity	Tolerance
802.11a	6-24 Mbps	27 dBm	±2dB	802.11a	6-24 Mbps	-94 dBm	±2dB
	36 Mbps	25 dBm	±2dB		36 Mbps	-82 dBm	±2dB
	48 Mbps	23 dBm	±2dB		48 Mbps	-79 dBm	±2dB
	54 Mbps	23 dBm	±2dB		54 Mbps	-76 dBm	±2dB
802.11n	MCS0	27 dBm	±2dB	802.11n	MCS0	-93 dBm	±2dB
	MCS1	27 dBm	±2dB		MCS1	-88 dBm	±2dB
	MCS2	27 dBm	±2dB		MCS2	-86 dBm	±2dB
	MCS3	27 dBm	±2dB		MCS3	-82 dBm	±2dB
	MCS4	26 dBm	±2dB		MCS4	-80 dBm	±2dB
	MCS5	24 dBm	±2dB		MCS5	-75 dBm	±2dB
	MCS6	23dBm	±2dB		MCS6	-73 dBm	±2dB
	MCS7	23 dBm	±2dB		MCS7	-72 dBm	±2dB
	MCS8	27 dBm	±2dB		MCS8	-93 dBm	±2dB
	MCS9	27 dBm	±2dB		MCS9	-89 dBm	±2dB
	MCS10	27 dBm	±2dB		MCS10	-87 dBm	±2dB
	MCS11	27 dBm	±2dB		MCS11	-82 dBm	±2dB
	MCS12	26 dBm	±2dB		MCS12	-81 dBm	±2dB
	MCS13	24 dBm	±2dB		MCS13	-75 dBm	±2dB
	MCS14	23 dBm	±2dB		MCS14	-73 dBm	±2dB
MCS15	23 dBm	±2dB	MCS15	-72 dBm	±2dB		

## Description

Wi-Tek's WI-CPE515 is a 5GHz 300Mbps 2x2 MIMO outdoor wireless CPE based on 802.11a/n technology. It is high performance, cost-effective and dedicated to long distance wireless CCTV network solutions. Featuring the revolutionary Wi-Tek technology in firmware design and 16dBi directional dual-polarized antenna, WI-CPE515 is specialized designed for rural Internet access, long distance wireless data transmission, wireless coverage extension and other industrial wireless solutions. 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	Atheros AR9344
Memory	64MB SDRAM 8MB Flash
Interface	1X10/100BASE-TX Ethernet Interface

<b>Power Supply</b>	24V Passive PoE Adapter Included
<b>Power Consumption</b>	8W
<b>Dimensions ( H x W x D )</b>	260x100x60mm
<b>Antenna Type</b>	Built-in 16dBi Dual-polarized Antenna Horizontal beam width: 60degree Vertical beam width: 15degree
<b>Protection</b>	10KV Lightning Protection
<b>Enclosure</b>	Outdoor UV Stabilized Plastic IP65 waterproof Certification

<b>WIRELESS FEATURES</b>	
<b>Wireless Standards</b>	802.11a/n
<b>Protocol</b>	CSMA/CA,TCP/IP,IPX/SPX, NetBEUI, DHCP TDMA
<b>Wireless Mode</b>	AP, Client,
<b>Wireless Speeds</b>	11a:54M,48M,36M,24M,18M,12M ,9M,6Mbps 11n:6.5M, 13M, 13.5M, 19.5M, 26M, 27M, 39M,

<b>WIRELESS FEATURES</b>	
	40.5M, 52M, 54M, 58.5M, 65M, 81M, 108M, 121.5M, 135M, 150M, 270M, 300Mbps
<b>Frequency</b>	4920-6100MHz
<b>Transmission Power</b>	27dBm(500mW)

<b>SOFTWARE FEATURES</b>	
<b>Wireless Configurations</b>	<p>802.11a/n Modes</p> <p>Selectable Channel Width: 20/40MHz</p> <p>Automatic Channel Selection</p> <p>Transmission Power Control</p> <p>Dynamic Frequency Selection (DFS)</p> <p>WDS Enable/Disable</p> <p>Security: WPA/WPA2, WPA-PSK/WPA2-PSK (AES/TKIP) Encryption, 64/128/152-bit WEP Encryption</p> <p>SSID Broadcast Enable/Disable</p> <p>Distance/ACK Timeout Setting</p> <p>Wireless MAC Address Filter</p> <p>Wireless Advanced: &gt; Beacon Interval/RTS Threshold/Fragmentation &gt;Threshold/DTIM Interval/AP Isolation/Short GI/Wi-Fi Multimedia</p>
<b>Management</b>	WEP management

<b>SOFTWARE FEATURES</b>	
	SSH Telnet Serial SNMP
<b>System-level Optimizations</b>	Optimized IGMP Snooping/Proxy for multicast applications Hardware watch dog

<b>OTHERS</b>	
<b>Certification</b>	CE
<b>Package Contents</b>	1*CPE 1*PoE Adapter 1* Pole Mounting Kit included
<b>System Requirements</b>	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.
<b>Environment</b>	Working Temp: -40 ~ 70°C Storage Temp: -40 ~85°C Working Humidity: 10%~95% non-condensing