



WI-CPE513P-KIT
5.8GHz 300Mbps
Outdoor Wireless Transmitter for CCTV
Data sheet

Highlights

- 500mW High power output, coverage up to 3km for PTP and PTMP wireless CCTV application
- 3km wireless transmit for Carry 20pcs IP camera Max
- auto-connect for PTP/PTMP application, no need setting software
- Wireless A/N speed up to 300Mbps
- Support open frequency from 5150 to 5825 MHz
- Inside 60 degree13dBi Directional Antenna Technology
- 27dBm High-Power design
- 2x2 MIMO Technology
- Support 24-48V Passive PoE Passthrough, With 48V PoE Output for Power up camera directly
- Qualcomm AR9344 600MHz Chipset,64MB RAM
- 10KV Lightning Protection

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		



Product Description

www.wireless-tek.com

Wi-Tek's WI-CPE513P-KIT 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 13dBi directional dual-polarized antenna, WI-CPE513P-KIT 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	Qualcomm AR9344

Memory	64MB SDRAM 16MB Flash
Interface	2X10/100BASE-TX Ethernet Interface
Power Supply	48V Passive PoE Adapter Included
Power Consumption	8W
Dimensions (H x W x D)	235x80x34mm
Antenna Type	Built-in 13dBi Dual-polarized Antenna Horizontal beam width: 60degree Vertical beam width: 15degree
Protection	10KV Lightning Protection
Enclosure	Outdoor UV Stabilized Plastic IP67 waterproof Certification

WIRELESS FEATURES	
Wireless Standards	802.11a/n
Protocol	CSMA/CA,TCP/IP,IPX/SPX, NetBEUI, DHCP
Wireless Mode	AP, Gateway, WISP, Repeater, WDS Mode

WIRELESS FEATURES

Wireless Speeds

11a:54M,48M,36M,24M,18M,12M
,9M,6Mbps
11n:6.5M, 13M, 13.5M,
19.5M, 26M, 27M, 39M,
40.5M, 52M, 54M, 58.5M,
65M, 81M, 108M, 121.5M,
135M, 150M, 270M, 300Mbps

Frequency

5150-5825MHz

Transmission Power

27dBm(500mW)

SOFTWARE FEATURES

Wireless Configurations	802.11a/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	2*CPE 2*PoE Adapter

OTHERS	
	2* Pole Mounting Kit included
System Requirements	<p>Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 10, Windows 8, Windows 7, MAC OS, NetWare, UNIX or Linux.</p> <p>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.</p>
Environment	<p>Working Temp: -40 ~ 70°C Storage Temp: -40 ~85°C Working Humidity: 10%~95% non-condensing</p>



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