

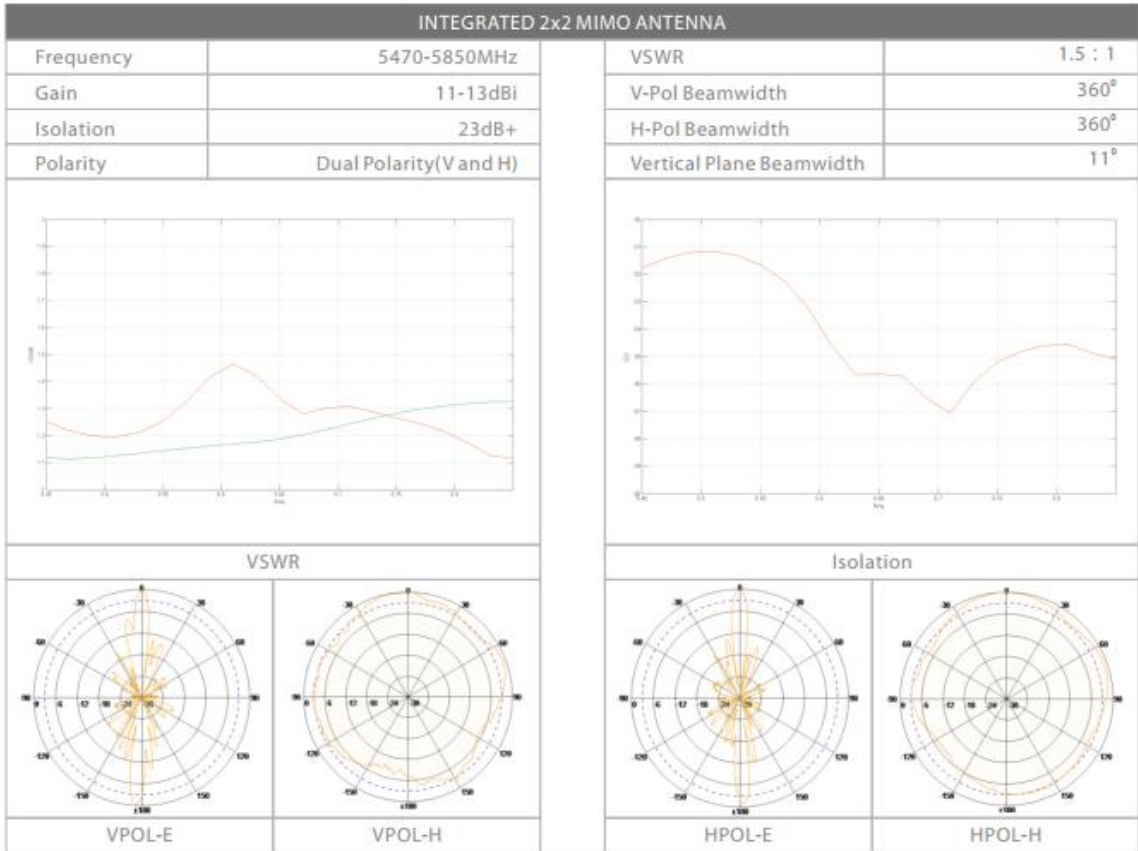


WI-CPE521
5.8GHz 300Mbps
Outdoor Base-station with OMNI
antenna
Data sheet

Highlights

- 500mW High power output, coverage up to 2KM for PTP and PTMP application
- Wireless A/N speed up to 300Mbps
- Support open frequency from 4920 to 6100 MHz
- Inside 360 degree 12dBi OMNI Antenna Technology
- 27dBm High-Power design
- 2x2 MIMO Technology
- Passive PoE Adapter supports up to 100 meter
- 1 PoE Port design, 24V PoE adapter Included
- Qualcomm AR9344 600MHz Chipset, 64MB RAM
- 10KV Lightning Protection
- Super TDMA Technology

Operating Frequency 5470-5850MHz							
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	-78 dBm	±2dB
	54 Mbps	22 dBm	±2dB		54 Mbps	-75 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	22 dBm	±2dB		MCS6	-73 dBm	±2dB
	MCS7	21 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	22 dBm	±2dB		MCS14	-73 dBm	±2dB
MCS15	21 dBm	±2dB	MCS15	-72 dBm	±2dB		



Product



Description

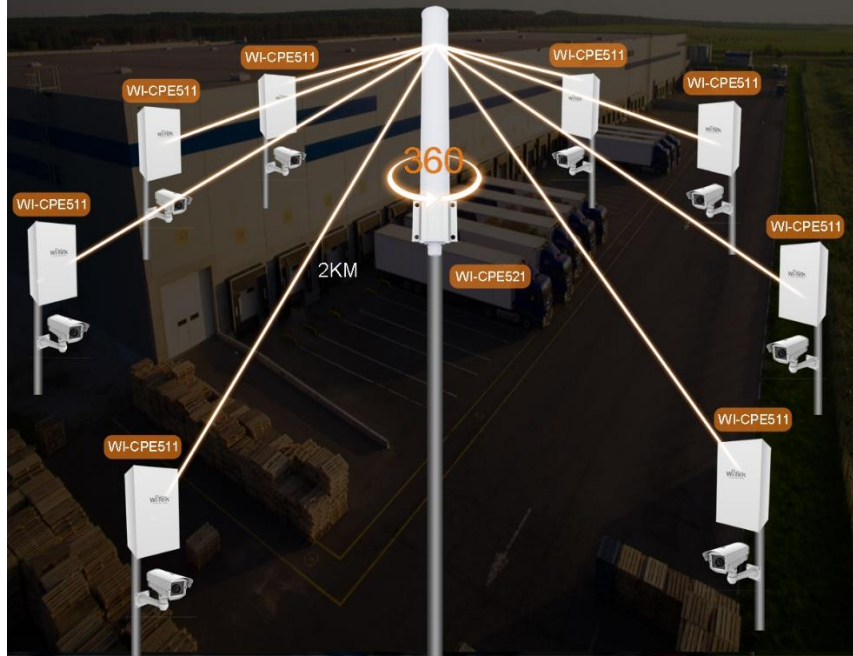
Wi-Tek's WI-CPE521 is a high capacity wireless outdoor AP integrated with antenna, using Qualcomm Atheros AR9344 high-performance processor and 2x2 MIMO Technology. The maximum access number is 100+ clients. It is revolutionary radio-in-feed dish design with high performance, cost-effective and dedicated to long distance wireless network solutions. Featuring the revolutionary Wi-Tek TDMA technology, WI-CPE521 is fully compatible with Wi-Tek base station and CPE thus greatly improving the network scalability in throughput and latency. With 360degree 12dBi dual-polarized sector antenna, can work with WI-CPE515 or WI-CPE518 for point to multipoint wireless transmission. WI-CPE521 is best applied to rural wireless Internet, wireless backhaul and other industrial wireless solutions.

Typical Applications



Build Point to Multi Point Wireless Link From Every Angles
WI-CPE521 | Basestation | 2KM Range

OMNI DIRECTIONAL ANTENNA



Specifications

HARDWARE FEATURES	
Processor	Qualcomm AR9344
Memory	64MB SDRAM 8MB Flash
Interface	1X10/100BASE-TX Ethernet Interface
Power Supply	24V Passive PoE Adapter Included

Power Consumption	8W
Dimensions (H x W x D)	100x785x587mm
Antenna Type	Built-in 12dBi Dual-polarized 360degree OMNI Antenna Horizontal beam width: 360degree Vertical beam width: 11degree
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 TDMA
Wireless Mode	AP,Client
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,

WIRELESS FEATURES	
	121.5M, 135M, 150M, 270M, 300Mbps
Frequency	4920-6100MHz
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

SOFTWARE FEATURES	
	Interval/AP Isolation/Short GI/Wi-Fi Multimedia
Management	WEB management
System-level Optimizations	Optimized IGMP Snooping/Proxy for multicast applications Hardware watch dog

OTHERS	
Certification	CE
Package Contents	1*CPE 1*PoE Adapter

OTHERS	
	1* 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</p> <p>Storage Temp: -40 ~85°C</p> <p>Working Humidity: 10%~95% non-condensing</p>



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