



WI-CPE515-KIT
5.8GHz 300Mbps
Outdoor CPE for wireless CCTV
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
- Qualcomm 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 | | |

Product



Description

Wi-Tek's WI-CPE515-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 16dBi directional dual-polarized antenna, WI-CPE515-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 8MB Flash |
| Interface | 1X10/100BASE-TX Ethernet Interface |
| Power Supply | 24V Passive PoE Adapter Included |

| | |
|---------------------------------|---|
| Power Consumption | 8W |
| Dimensions (H x W x D) | 260x100x60mm |
| Antenna Type | Built-in 16dBi Dual-polarized Antenna Horizontal beam width: 60degree Vertical beam width: 15degree |
| Protection | 10KV Lightning Protection |
| Enclosure | Outdoor UV Stabilized Plastic IP65 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, 121.5M, 135M, 150M, 270M, 300Mbps |

| WIRELESS FEATURES | |
|---------------------------|--------------|
| Frequency | 4920-6100MHz |
| Transmission Power | 27dBm(500mW) |

| SOFTWARE FEATURES | |
|-----------------------------------|---|
| Wireless Configurations | <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:</p> <ul style="list-style-type: none"> > Beacon Interval/RTS Threshold/Fragmentation >Threshold/DTIM Interval/AP Isolation/Short GI/Wi-Fi <p>Multimedia</p> |
| Management | WEP management |
| System-level Optimizations | <p>Optimized IGMP Snooping/Proxy for multicast applications</p> <p>Hardware watch dog</p> |

| 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 |