MovingComm
Your Wireless Technology

ComFi WK9500

High Performance Outdoor 1200Mbps WiFi5 Dual Band High Power Wireless AP

Product Specifications

- External 6dBi Omni-Directional Antenna
- Qualcomm Chipset Solution, up to 80 devices
- Waterproof Outdoor Casing, IP67 Protection
- Standard PoE Power Input or DC Power Input (Optional)
- 1200Mbps, Adjustable Tx Power 802.11AC MIMO
- FIT and FAT AP Mode, Adjustable TX Power, Coverage Radius 200 Meters

Product Description

ComFi WK9500 is an outdoor 2x2 dual-band 802.11ac wireless AP, suitable for outdoor areas that require wireless coverage such as scenic spots, parks, schools, and squares. ComFi WK9500 supports MIMO, the maximum concurrent connection rate of dual-band can reach up to 1167Mbps, which can build a stable and high-speed wireless network for users. ComFi WK9500 has high-performance wireless indicators, can get a larger wireless coverage area and better wall penetration performance. ComFi WK9500 supports the access of hundreds of wireless terminals to meet the application scenarios of high-density wireless terminals. At the same time, ComFi WK9500 also has good compatibility and supports the access of most wireless terminals on the market. Users can easily connect using mobile phones, tablets or laptops.

ComFi WK9500 integrates the OpenWrt development platform. For teams that have software development capabilities but lack a hardware platform, and want to develop their own wireless 11ac AP, WK9500 is a very good choice. Users can quickly and easily develop upper-layer applications according to specific needs, and create their own unique wireless AP products.

ComFi WK9500 supports PoE power supply and pole installation, and the installation and configuration are flexible and convenient. Users only need to spend a short time to complete the settings, you can enjoy the fun of surfing the Internet

Product Features

- Support pole installation
- Support 2.4G 2x2 Wi-Fi (802.11b/g/n/ac), up to 300Mbps wireless rate
- Support 5G 2x2 Wi-Fi (802.11a/n/ac), up to 867Mbps wireless rate
- Two 2.4GHz band antennas and two 5GHz band antennas
- 1 RJ45 1GbE WAN port, supporting 802.at PoE (PD)
- 1 SFP Gigabit optical port (optional)
- 4 N-type antenna interfaces
- 5 status indicators (PWR/ WAN/ 2.4G/ 5G)

Hardware Specifications

Model	WK9500
Dimension	240mm x 195mm x 80mm (L x W x H)
Weight	Approx. 2500g
Installation	Wall or Pole Installation
LED Indicators	PWR / SYS / 2.4GHz / 5GHz / SFP

Interfaces	1 x GbE Uplink, Support 802.3at Power Supply 1 x 1GbE SFP Port (Optional) 4 x N-Type Antenna Connector (Wi-Fi)
Power Input	50V ~ 57V, 802.3at PSE
Environment	
Operating Temperature	-40°C to +65°C
Storage Temperature	-40°C to +70°C
Operating Humidity	5% - 95% (non-condensing)
Air Pressure	86kPa ~ 106kPa Altitude
IP Rating	IP67
Safety Certification	SRRC, Can do according customer's request
Stability	
Annual Failure Rate	AFR < 1.5% (Continuous Operation Status)
Chipset Solution	
CPU	Qualcomm IPQ4019 + QCA8075
Flash	32MB SPI Flash
RAM	256MB DDR3L Memory
Wi-Fi Characteristics	
Working Frequency	2.4GHz Radio: 2.4000GHz ~ 2.4835GHz
	5GHz Radio: 5.150~5.250,5.250~5.350,5.470~5.725, 5.725~5.850GHz
Max. Transmit Power	2.4GHz Radio: 27dBm @ MCS0, 21dBm @ MCS11
	5GHz Radio: 27dBm @ MCS0, 21dBm @ MCS11
Data Rate	2.4G Radio: 802.11b: 1, 2, 5.5, and 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps 802.11n HT20/ HT40: MCS0~MCS15 (400/ 800ns GI)
	5G Radio: 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54Mb/s 802.11n HT20/ HT40: MCS0~MCS15(400/ 800ns GI) 802.11ac VHT20/VHT40/VHT80: MCS0 ~ MCS9(400/ 800ns GI)

<table>
<tr><td rowspan="3">Reception Sensitivity</td><td>802.11g:
-92dBm@6Mbps
-74dBm@54Mbps</td></tr>
<tr><td>802.11n:
<table>
<tr><td></td><td>HT20</td><td>HT40</td></tr>
<tr><td>MCS0/8/16</td><td>-90dBm</td><td>-87dBm</td></tr>
<tr><td>MCS7/15</td><td>-71dBm</td><td>-68dBm</td></tr>
</table></td></tr>
<tr><td>802.11a:
-89dBm@6Mbps
-74dBm@54Mbps</td></tr>
<tr><td>802.11ac:
<table>
<tr><td></td><td>VHT20</td><td>VHT40</td><td>VHT80</td></tr>
<tr><td>MCS0</td><td>-90dBm</td><td>-87dBm</td><td>-84dBm</td></tr>
<tr><td>MCS8</td><td>-67dBm</td><td>-61dBm</td><td>-58dBm</td></tr>
</table></td></tr>
<tr><td>Antenna Specification</td><td>
<table>
<tr><td>Frequency (MHz)</td><td>2400 ~ 2500</td><td>4940 ~ 5850</td></tr>
<tr><td>Polarization</td><td>Horizontal / Vertical</td><td>Horizontal / Vertical</td></tr>
<tr><td>Gain (dBi)</td><td>6</td><td>6</td></tr>
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Order Information

Product Model	Product Description
ComFi WK9500	Complete Product Unit including 1 x 48V PoE Power Supply (Optional) / 12VDC Power Adapter (Optional) 2 x Fiberglass Antenna (2.4GHz WIFI) 2 x Fiberglass Antenna (5GHz WIFI) 1 x Mounting Bracket Outdoor 1 x Network Cable

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