

ComFi WL9600

High Performance Outdoor WiFi6 Dual Band High Power Wireless AP

Product Specifications



- External 6dBi~8dBi Omni-Directional Antenna
- Qualcomm Chipset Solution, up to 100 devices
- Waterproof Outdoor Casing, IP67 Protection
- Standard PoE Power Input or DC Power Input (Optional)
- 1800Mbps, Dual Band WiFi6 802.11ax MU-MIMO
- FIT and FAT AP Mode, Adjustable TX Power, Coverage Radius 200 Meters

Product Description

ComFi WL9600 is an outdoor 2x2 dual-band WiFi6 wireless AP, suitable for outdoor areas that require wireless coverage such as scenic spots, parks, schools, and squares. ComFi WL9600 supports 2x2 11ax, and the maximum concurrent connection rate of dual-band can reach up to 1800Mbps, which can build a stable and high-speed wireless network for users. ComFi WL9600 has high-performance wireless indicators, can get a larger wireless coverage area and better wall penetration performance. ComFi WL9600 supports the access of up to hundreds of wireless terminals to meet the application scenarios of high-density wireless terminals. At the same time, ComFi WL9600 also has good compatibility and supports the access of most wireless terminals on the market. Users can use mobile phones, tablets or laptops to easily connect.

ComFi WL9600 supports standard 48V 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

Wi-Fi6 (IEEE 802.11ax) Standard

- 802.11ax, as the latest generation of IEEE 802.11 Wi-Fi standard, can increase user access capacity and bandwidth in high-density access scenarios, reduce service delays, and enhance user experience.
- Support 2.4GHz and 5GHz dual-frequency UL/DL MU-MIMO, enabling AP to send data to multiple terminals at the same time, and the utilization rate of wireless spectrum resources is higher than predecessor 802.11ac.
- Support 1024QAM modulation, data transmission efficiency is increased by 25% compared with 802.11ac (256QAM).
- Support UL/DL OFDMA technology, use different subcarriers to transmit data to multiple terminals at the same time, reduce delay and improve network efficiency.
- Support spatial multiplexing technology, through the BSS coloring mechanism (BSS coloring) so that AP and terminal can distinguish overlapping BSS (basic service set), to minimize co-channel interference.
- Support target wake time* mechanism, allowing AP and terminal to negotiate sleep and wake time, reducing conflicts between terminals and unnecessary wake-up times, saving terminal power, and improving battery life.

Multi-User Uplink and Downlink-multiple Input and Multiple Output Technology (MU-MIMO)

Support MU-MIMO technology, support up to 8 spatial streams, 2.4GHz frequency band supports 4 spatial streams, 5GHz frequency band supports 4 spatial streams, through DL/UL MU-MIMO technology, AP can send data to multiple terminals at the same time, The utilization rate of wireless spectrum resources has been doubled, increasing the number of access users and bandwidth, and improving user experience in high-density access scenarios.

High-Speed Access

Supports 160MHz bandwidth. The increase in bandwidth has increased the available data sub-carriers and expanded the transmission channel; in addition, the use of 1024QAM modulation, MU-MIMO and other technologies makes the 5GHz single frequency band rate up to 1.2Gbps, and the whole machine rate is up to 3Gbps.

5GHz Priority

The AP supports both 2.4GHz and 5GHz dual-band access. By controlling the terminal to preferentially access the 5GHz frequency band, dual-frequency end users in the 2.4GHz frequency band are migrated to the 5GHz frequency band, reducing the load and interference on the 2.4GHz frequency band, and improving user experience.

High-level Protection

- It adopts metal shell and overall heat dissipation design, suitable for wide temperature operation of -40°C to +65°C and adopts IP68 waterproof and dustproof design. Ethernet interface supports
- 6KA/6KV enhanced lightning protection, fully meet the requirements of industrial-grade use;
- Reinforced with metal fasteners and cable connectors to ensure connection fastening performance and equipment working stability;
- The antenna port has a built-in 5KA high-spec lightning protection device, no external lightning protection device is required, which simplifies installation and reduces costs.

External Indicator

The external high-bright status indicator light makes the equipment running status clear at a glance, saving troubleshooting time.

Hardware Specifications

Model	WL9600
Dimension	265mm x 195mm x 85mm (L x W x H) (Including N-Type connector)
Weight	1823g
Installation	Wall or Pole Installation
LED Indicators	PWR / SYS / 2.4GHz / 5GHz / SFP
Interfaces	1 x GbE Uplink, Support 802.3at Power Supply 4 x N-Type Antenna Connector (WIFI)
Power Input	48V ~ 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 IPQ6000 + QCA8075 + QCN5022 + QCN5052
Flash	16MB SPI NOR Flash + 128MB NAND Flash (Optional 32MB SPI NOR Flash)
RAM	512MB 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: 22dBm @ MCS0, 19dBm@MCS7
	5GHz Radio: 22dBm @ MCS0, 19dBm@MCS7
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) 802.11ax HE20/ HE40: MSC0 ~ MCS11(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) 802.11ax HE20/ HE40/HE80: MSC0 ~ MCS11(400/ 800ns GI)
Reception Sensitivity	802.11g: -92dBm@6Mbps -75dBm@54Mbps

	<p>802.11n:</p> <table border="1" data-bbox="555 206 1305 383"> <thead> <tr> <th></th> <th>HT20</th> <th>HT40</th> </tr> </thead> <tbody> <tr> <td>MCS0/8/16</td> <td>-89dBm</td> <td>-84dBm</td> </tr> <tr> <td>MCS7/15</td> <td>-68dBm</td> <td>-65dBm</td> </tr> </tbody> </table> <p>802.11a: -89dBm@6Mbps -74dBm@54Mbps</p> <p>802.11ac:</p> <table border="1" data-bbox="555 658 1326 835"> <thead> <tr> <th></th> <th>VHT20</th> <th>VHT40</th> <th>VHT80</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>802.11ax:</p> <table border="1" data-bbox="555 947 1326 1124"> <thead> <tr> <th></th> <th>HE20</th> <th>HE40</th> <th>VHT80</th> </tr> </thead> <tbody> <tr> <td>MCS0</td> <td>-90dBm</td> <td>-87dBm</td> <td>-84dBm</td> </tr> <tr> <td>MCS11</td> <td>-56dBm</td> <td>-53dBm</td> <td>-50dBm</td> </tr> </tbody> </table>		HT20	HT40	MCS0/8/16	-89dBm	-84dBm	MCS7/15	-68dBm	-65dBm		VHT20	VHT40	VHT80	MCS0	-90dBm	-87dBm	-84dBm	MCS8	-67dBm	-61dBm	-58dBm		HE20	HE40	VHT80	MCS0	-90dBm	-87dBm	-84dBm	MCS11	-56dBm	-53dBm	-50dBm
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Product Views



Order Information

Product Model	Product Description
ComFi WL9600	<p>Complete Product Unit including</p> <ul style="list-style-type: none"> 1 x 48V PoE Power Supply (Optional) / 12VDC Power Adapter (Optional) 2 x Omni-Directional Fiberglass Antenna (2.4GHz WIFI) 2 x Omni-Directional Fiberglass Antenna (5GHz WIFI) 2 x U-shape Installation Kit 2 x L-shape Installation Accessories 1 x Network Cable

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