

ComFi W3500

High Performance Outdoor Waterproof 5G CPE

Product Specifications



- Support 5G Sub-6 Cellular Network and Bands
- IP67 Grade Outdoor Enclosure, Dustproof and Waterproof
- External 6dBi Omni-Directional Antenna
- Higher Wi-Fi Power, coverage 150 Meter Radius
- Power by PoE Power or Standard DC Power
- 1200Mbps Wi-Fi Data Rate and Support 60+ Users

Product Description

ComFi W3500 is an outdoor 2x2 Dual Band 802.11ac Wave2 Wireless Access Point. It is especially suitable for outdoor environment that require wireless coverage such as scenic spots, parks, schools, and squares. ComFi W3500 supports 2x2 802.11ac Wi-Fi technology, and the maximum concurrent connection rate of dual band can reach up to 1200Mbps, which can build a stable and high-speed wireless network for users.

ComFi W3500 has high performance wireless capabilities that it can get a larger wireless coverage area and better wall penetration performance. ComFi W3500 supports the access of more than 60 wireless terminals, satisfy to the application scenarios of high-density wireless terminals. In addition, ComFi W3500 also has good compatibility and supports the access of most wireless terminals on the market. Users can use mobile phones, tablets and laptops to connect easily.

ComFi W3500 can support the OpenWRT development platform. For any product development teams who have software development capabilities but lack a hardware platform, and want to develop their own wireless 802.11ac access point solution. The ComFi W3500 is a very good choice. Users can quickly and easily develop upper-layer applications according to specific needs to create their own unique wireless AP products.

ComFi W3500 supports 5G Sub-6, downward compatible 4G LTE, PoE power supply, and pole installation. The installation configuration is flexible and convenient.

Product Features

- Pole Installation for outdoor application.
- Support 2.4GHz 2x2 WI-FI, IEEE 802.11b/g/n/ac Wi-Fi standard, up to 300Mbps data rate.
- Support 5GHz 2x2 Wi-Fi, IEEE 802.11a/n/ac Wave2 Wi-Fi standard, up to 867Mbps data rate.
- Support 5G NR cellular network, support standalone (SA) and Non-Standalone (SNA) 5G Architectures.
- Support Dual SIM Network Redundancy and Backup.
- 1 x RJ45 10/100/1000Mbps Gigabit Ethernet Network Port, Support IEEE802.3at PoE (PD)
- 2 x Type-N Antenna Connector (WIFI) and 2 x Internal Built-in Antenna (WIFI).
- 4 x Type-N Antenna Connector for 5G NR cellular radio.
- 7 status indicator view at a glance (PWR/SYS/WIFI/NET/5G ONLINE)
- IP67 grade dustproof and waterproof.

Hardware Specifications

Model	W3500
Dimension	240mm x 195mm x 80mm (L x W x H)
Weight	1562g
Installation	Wall / Pole Mountable Installation
LED Indicators	PWR / SYS / 2.4GHz / 5GHz / SFP
Interfaces	1 x 1GbE Uplink, Support 802.3at Power Supply 1 x 1GbE RJ45 LAN Port 2 x Type-N Antenna Connector (WI-Fi) 4 x Type-N Antenna Connector (5G NR)
Power Input	48V ~ 57V, 802.3at PSE

Environment	
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +70°C
Operating Humidity	5% - 95% (non-condensing)
Air Pressure	86kPa ~ 106kPa Altitude
IP Rating	IP67 (Dustproof and Waterproof)
Safety Certification	SRRC, Can do according customer's request

Stability	
Annual Failure Rate	AFR < 1.5% (Continuous Operation Status)

Chipset Solution	
CPU	Mediatek MT7621 + MT7603E + MT7613B
Flash	16MB SPI Flash
RAM	128MB DDR2 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 (500mW) @ MCS0, 25dBm@MCS7											
	5GHz Radio: 27dBm (500mW) @ MCS0, 20dBm@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) 802.11ac: VHT20/VHT40: MCS0~MCS9 (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)											
Reception Sensitivity	802.11g: -92dBm@6Mbps -75dBm@54Mbps											
	802.11n: <table border="1" data-bbox="568 1196 1323 1373"> <thead> <tr> <th></th> <th>HT20</th> <th>HT40</th> </tr> </thead> <tbody> <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> </tbody> </table>		HT20	HT40	MCS0/8/16	-90dBm	-87dBm	MCS7/15	-71dBm	-68dBm		
		HT20	HT40									
	MCS0/8/16	-90dBm	-87dBm									
MCS7/15	-71dBm	-68dBm										
802.11a: -89dBm@6Mbps -74dBm@54Mbps												
802.11ac: <table border="1" data-bbox="568 1599 1342 1776"> <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>		VHT20	VHT40	VHT80	MCS0	-90dBm	-87dBm	-84dBm	MCS8	-67dBm	-61dBm	-58dBm
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5G NR Specifications			
5G Category	3GPP Release 15 NSA/SA operation, Sub-6 GHz		
LTE Category	DL Cat 16/ UL Cat 18		
Frequency#	5G NR	NSA	n41/n77/n78/n79
		SA	n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/ n77/n78/n79
	LTE	LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/ B28/B29/B30/B32/B66/B71
		LTE-TDD	B34/B38/B39/B40/B41/B42/B43/B48
		LAA	B46
	UMTS	WCDMA	B1/B2/B3/B4/B5/B6/B8/B19
	GNSS	GPS/GLONASS/BDS/Galileo	
Max. Data Rate	5G SA Sub-6		DL 2.1 Gbps, UL 900 Mbps
	5G NSA Sub-6		DL 2.5 Gbps, UL 600/650 Mbps
	LTE		DL 1.0Gbps, UL 200Mbps
	WCDMA		DL 42Mbps, UL 5.76Mbps

*Note *: Under development/in progress.*

#: The information about the supported standards and wireless bands may vary with the application of 5G modules. Before ordering, please ask and confirm with our sales representatives whether or not the required network standards and wireless frequency bands are met.

Order Information

Product Model	Product Description
ComFi W3500	<p>Complete Product Unit including</p> <ul style="list-style-type: none">4 x 5G Cellular Omnidirectional Fiberglass Antenna1 x 2.4GHz Wi-Fi Omnidirectional Fiberglass Antenna1 x 5GHz Wi-Fi Omnidirectional Fiberglass Antenna1 x Mounting Bracket Outdoor Set1 x Network Cable <p>Optional Items:</p> <ul style="list-style-type: none">1 x 48V PoE Power Support (Optional)1 x GPS Antenna (Optional)

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