

ComFi W2140

High Performance Outdoor 4G Wireless CPE

Product Specifications



- 4G LTE-FDD LTE-TDD Cellular Modem
- IP65 Grade Outdoor Enclosure, Dustproof and Waterproof
- External 6dBi Omni-Directional Antenna
- Higher Wi-Fi Power, coverage 100 Meter Radius
- Power by PoE Power or Standard DC 12V Power
- 300Mbps Wi-Fi Data Rate and Support 32+ Users

Product Features

- Pole Installation for outdoor application.
- Support 2.4GHz 2x2 WI-FI, IEEE 802.11b/g/n Wi-Fi standard, up to 300Mbps data rate.
- Support 4G LTE cellular network, multiple common LTE-FDD and LTE-TDD bands support with LTE Cat4 technology, up to 150Mbps data rate.
- 1 x RJ45 10/100Mbps Fast Ethernet Network Port, IP65 Waterproof, Support 24V PoE
- 2 x Type-N Antenna Connector for 2.4 GHz WI-Fi radio.
- 2 x Type-N Antenna Connector for 4G LTE cellular radio.

Hardware Specifications

Model	ComFi W2140
CPU	Mediatek MT7628 + Quectel Cat4 4G LTE Modem
Flash	16MB SPI Flash
RAM	64MB DDR2 Memory (Optional 128MB)
Wi-Fi	IEEE 802.11n Wi-Fi Standard
	2.4GHz IEEE 802.11n MIMO up to 300Mbps
Interfaces	1 x External RJ45 LAN/WAN Port, 24V PoE 2 x Type-N Antenna Connector (WI-Fi) 2 x Type-N Antenna Connector (4G)
Power Input	24V PoE
Watchdog	Built-in Hardware Watchdog, Support Device Operation Self-Check Technology, Auto Recovery From Device Failure
Enclosure	IP65, Dustproof and Waterproof Metal Casing
Operating Temperature	-40°C to +55°C
Storage Temperature	-40°C to +70°C
Operating Humidity	5% - 95% (non-condensing)
Air Pressure	86kPa ~ 106kPa Altitude

Dimension	280mm x 210mm x 80mm (L x W x H)
Weight	TBC
Installation	Wall / Pole Mountable Installation
Firmware	Linux SDK

4G/3G/2G Cellular Specifications

LTE Category	LTE Cat 4	
Frequency*	CN Version	LTE-FDD: B1, B3, B5, B8 LTE-TDD: B34, B38, B39, B40, B41 WCDMA: B1, B5, B8 GSM: B3, B8
	EU Version	LTE-FDD: B1, B3, B7, B8, B20, B28 LTE-TDD: B38, B40, B41 WCDMA: B1, B8 GSM: B3, B8
	LATAM/AU Version (Custom)	LTE-FDD: B1, B2, B3, B4, B5, B7, B8, B28, B66 LTE-TDD: B40 WCDMA: B1, B2, B4, B5, B8 GSM: B2, B3, B5, B8
Data Rate	LTE	LTE-FDD: Max. 150 (DL)/ Max. 50 (UL) LTE-TDD: Max. 130 (DL)/ Max. 30 (UL)
	DC-HSPA+	Max. 21 (DL)/ Max. 5.76 (UL)
	WCDMA	Max. 384 (DL)/ Max. 384 (UL)
	EDGE	Max. 236.8 (DL)/ Max. 236.8 (UL)
	GPRS	Max. 85.6 (DL)/ Max. 85.6 (UL)
Transmitting Power	Class 4 (33dBm±2dB) for EGSM900 Class 1 (30dBm±2dB) for DCS1800 Class E2 (27dBm±3dB) for EGSM900 8-PSK Class E2 (26dBm±3dB) for DCS1800 8-PSK Class 3 (24dBm+1/-3dB) for WCDMA bands Class 3 (23dBm±2dB) for LTE-FDD bands Class 3 (23dBm±2dB) for LTE-TDD bands	

Note *: The information about the supported standards and wireless bands may vary with the application of 4G modules. Before ordering, please ask and confirm with our sales representatives whether or not the required network standards and wireless frequency bands are met.

Wi-Fi Specifications

Wi-Fi Technology	IEEE 802.11b/g/n
Channel Bandwidth	20MHz, 40MHz
Frequency	2.4GHz (2.412-2.4835GHz)
TX/RX	2.4GHz: 1T1R
MIMO	DL: 2X2 MIMO
Max Data Rate	802.11b: 11Mbps 802.11g: 54Mbps 802.11n: 300Mbps
Modulation	11b: DBPSK, DQPSK and CCK and DSSS 11g: BPSK, QPSK, 16QAM, 64QAM and OFDM 11n: MCS0~15 OFDM
Reception Sensitivity	-85dBm in 802.11b -70dBm in 802.11g -70dBm in 802.11n
Max. Output Power	17±2dBm in 802.11b 16±2dBm in 802.11g 15±2dBm in 802.11n
Antenna Type	External Antenna, Fiberglass N-Type
Wi-Fi User Support	Max. 32 Users
Wi-Fi Encryption	WEP/WPA/WPA2 Protected Encryption

Software Specifications

Main Features	WAN	Static IP, DHCP, PPPoE
		Support Links Redundancy, and WAN-WWAN Failsafe
		Link detection, Heartbeat detection, and auto reconnection
	WIFI	Client, AP, Router Mode
		Support WPA/WPA2 Encryption, MAC Filter and others
	VPN	Support VPN Client PPTP / L2TP

	Management	SYSLOG / HTTP / Other Functions
		Support Local or Remote Firmware Upgrade, Import / Export configuration file
	Support APN/VPDN	
	Support IPv6	
	Support NTP	
	Support VLAN, MAC Address Clone	
	Support Multiple DHCP Server, DHCP Client, DHCP and MAC Address Binding, DDNS, Firewall, DMZ, Traffic Statistics and others	
	Support TCP/IP, UDP, FTP(optional), HTTP and Other Network Protocols	
	Support Multiple Serial Pass-through Method, UDP Client, TCP Client, Server	

Order Information

Product Model	Product Description
ComFi W2140	Complete Product Unit including 2 x 4G Omnidirectional Fiberglass Antenna 2 x 2.4GHz Omnidirectional Fiberglass Antenna 1 x Pole Installation Kit 1 x Network Cable

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