ComFi CM220E

High Performance LTE Cat6 Wireless Gateway Router

Product Specifications

- All Gigabit 10/100/1000Mbps Ethernet Port

- Dual Band Wi-Fi up to 1200Mbps

- Rich Interfaces for Small Office Home Office

- Support VoIP, VoLTE Voice Telephone Call

- High Speed LTE Cat6 Cellular Network Access

Product Description

ComFi CM220E is a high-performance LTE CAT6 wireless home gateway product designed by Movingcomm Technology. It can provide superior wireless access performance and comprehensive router capabilities. It brings wireless broadband data and voice services to end-users. It transmits LAN and Wi-Fi local area network data through a high-speed LTE wide area network, so that mobile phones, internet phones, laptops, computers, and other smart devices can simultaneously access the internet through the device

ComFi CM220E has an integrated Wi-Fi IEEE802.11ac wireless access point and 1 Gigabit WAN/LAN port + 3 Gigabit LAN ports. It provides a unique management center that enables users to monitor LTE signal strength, bandwidth, usage statistics, etc. ComFi CM220E also supports VoIP and VoLTE digital phones for voice call function. Especially suitable for home, SOHO, and various places where the network is inconvenient.

Hardware Specifications

Model	ComFi CM220E
USIM	1 x 1.8V/3.0V USIM 2FF SIM Card Slot
Ethernet	4 x RJ45 10/100/1000Mbps Gigabit Ethernet Port, Auto MDI/X (1 WAN + 3 LAN)
Voice	1 x RJ11 Telephone Port
USB	1 x USB 2.0 Port (For Debug Purpose Only)
External Antenna	2 x LTE Antenna (Cellular)
Power Adapter	Input: 100V~240V AC 50Hz/60Hz Output: DC12V/1.5A
Power Switch	1 x Power On/Off Switch Button
Reset	Long Press 3-second to reset to facture default setting
WPS	1 x WPS Button
LED Indicator	PWR x 1 SIGNAL x 1 WLAN (WPS) x 1 Ethernet x 1 Internet x 1
Size	155mm x 175mm x 54mm
Battery	2600mAh (optional)

Weight	Approx. 390 gram
Operating Temperature	-20°C to +60°C
Storage Temperature	-25°C to +70°C
Operating Humidity	5% - 95% (non-condensing)

Chipset and RAM Specifications

Main Chipset	MT7621A 32-bit MIPS1004Kc Dual-core CPU
Flash	32MB SPI Flash
RAM	128MB DDR3
2.4GHz Wi-Fi	MT7603
5GHz Wi-Fi	MT7613
4G LTE	ASR1826 Chipset, CAT6 modem

4G/3G/2G Cellular Specifications

Cellular Technology	TDD-LTE, FDD-LTE, WCDMA
Frequencies	FDD B1, B3, B5, B7, B8, B20, B28, B32 TDD B38, B40, B41 WCDMA B1, B5, B8 *Note: If you need to customize the frequency band, please contact our sales representative.*

2CA (Carrier Aggregation)	1C, 1A+3A, 1A+5A, 1A+7A, 1A+8A, 1A+20A, 1A+28A , 3C, 3A+1A, 3A+5A, 3A+7A, 3A+8A, 3A+20A, 3A+28A, 5A+1A, 5A+3A, 7C, 7A+1A, 7A+3A, 7A+8A, 7A+20A, 7A+28A, 8A+1A, 8A+7A, 20A+1A, 20A+3A, 20A+7A, 20A+32A, 28A+1A, 28A+3A, 28A+7A, 38C, 40C, 41C *Noted: The modem does not support FDD + TDD aggregation. If you need other aggregation frequency bands, please contact our sales representative.*
Data Transmission	LTE FDD: Max. 300Mbps (DL) / Max. 50Mbps (UL) LTE TDD: Max. 223Mbps (DL) / Max. 20.4Mbps (UL) WCDMA: Max. 42Mbps (DL) / Max. 5.76Mbps (UL)
Reception Sensitivity	Comply 3GPP Standard
Max. Output Power	LTE FDD: 23dBm±2dB LTE TDD: 23dBm±2dB WCDMA: 24dBm+1dB/-3dB
Antenna Type	External Cellular Antenna
Antenna Gain	3dBi

Wi-Fi Specifications

Wi-Fi Technology	IEEE 802.11a/b/g/n/ac
Channel Bandwidth	20MHz, 40MHz, 80MHz
Frequency	2.4GHz and 5GHz
TX/RX	2.4GHz: 2T2R 5GHz: 2T2R
MIMO	DL: 2X2 MIMO
Max Data Rate	802.11b: 11Mbps 802.11g: 54Mbps 802.11n: 300Mbps 802.11ac: 867Mbps

Modulation	11b: DBPSK, DQPSK and CCK and DSSS 11g: BPSK, QPSK, 16QAM, 64QAM and OFDM 11n: MCS0~15 OFDM 11a: BPSK, QPSK, 16QAM, 64QAM 11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM, OFDM
Reception Sensitivity	-85dBm in 802.11b -70dBm in 802.11g -70dBm in 802.11n -60dBm in 802.11ac
Max. Output Power	17±2dBm in 802.11b 16±2dBm in 802.11g 15±2dBm in 802.11n 15±2dBm in 802.11ac
Antenna Type	Internal Antenna
Wi-Fi User Support	Max. 64 Users

Software Specifications

Language Support	Mandarin, English
IP Protocol	IPv4
SIM Management	PIN, PUK Management
Dial Method	Auto
LTE Band Search Mode	Full Band Search
WLAN	WPS, WPA, WPA2 Encryption, WLAN Access Filter
VPN	L2TP, PPTP
NAT	Port Forwarding, DMZ
Digital Phone	VoIP, VoLTE, CS Only
TR069	Support
Firewall	IP, MAC Black/White List, Port Forwarding, DMZ
Statistics	LTE Network Status, Connection Time, System Operation Time, Device Status, DHCP Client List, Wi-Fi Station List, LTE Status, Firewall Status
Maintenance	Network Diagnosis, Time Synchronization Settings, Restart, Restore Factory Settings, Restore/Backup configuration Files, Local Upgrade

System Log	Operation Log, System Log, Log Management

Order Information

Product Model*	External Antenna	Voice Call	Battery
ComFi CM220E	Yes	No	No
ComFi CM220EV	Yes	Yes	No
ComFi CM220EB	Yes	No	Yes
ComFi CM220EVB	Yes	Yes	Yes
Product Packaging: 1 x CM220E Wireless Router Unit 1 x AC/DC Power Adapter 1 x Network Cable 1 x User Manual 2 x Cellular Antenna (4G)			

* Different models and specifications correspond to different prices

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