

Product Introduction

The EW321 is a cost-effective mini portable wireless communication product developed based on the demands of 4G networks. It offers a high WiFi wireless speed of up to 300Mbps and features a Type-C 5V power interface. It meets the needs of small network mobility, high-speed, stable, secure, and simple internet access for SOHO offices, homes, and on-the-go use. With support for all-network 4G network access, it is equipped with one 10/100M adaptive Ethernet LAN interface for internal LAN connection and one 10/100M adaptive Ethernet WAN/LAN switchable interface for wired broadband access. It supports centralized management through the TR069 protocol, making it easy to monitor device status in large-scale deployments.



Features

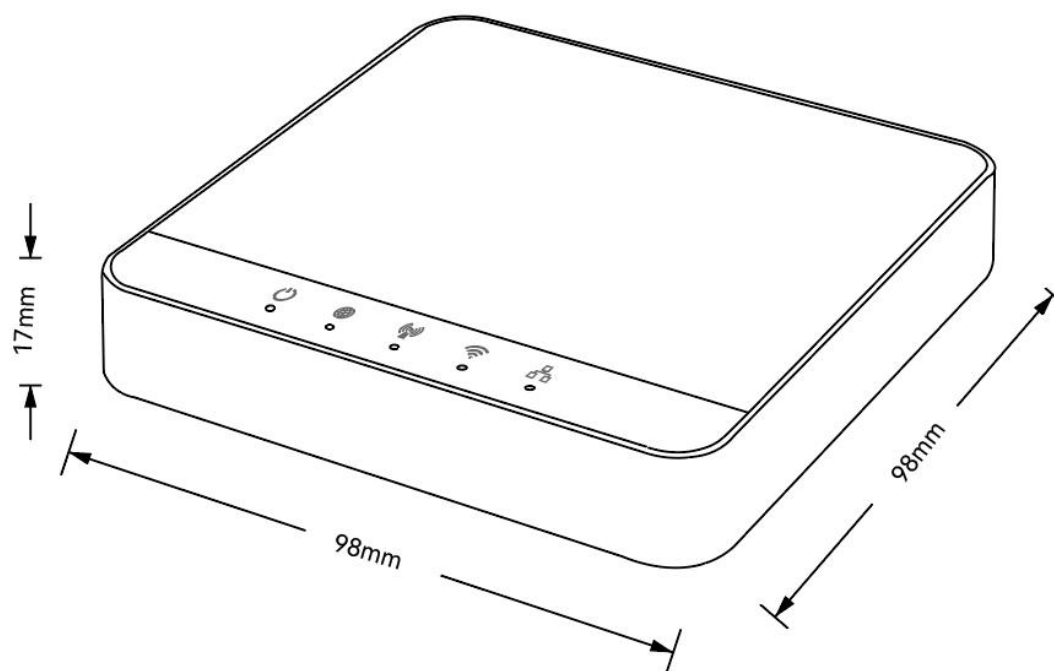
- 1) Industrial device design with built-in multiple protections such as electrostatic, surge, and rapid electrical pulse groups, easily adapting to various harsh environments, ensuring long-term stability and reliable operation.
- 2) Independent wireless routing processing chip and 4G processing chip for module, each performing its respective tasks, with dual-path concurrency, ensuring a stable and efficient system.
- 3) Type-C 5V power supply interface, allowing power input from USB chargers, car chargers, and other USB power devices for device power access.
- 4) Supports 4G access for telecom, China Unicom, China Mobile, and China Broadcasting, and supports APN/VPDN connections.
- 5) Supports router mode, AP mode, and 4G LTE wireless access, providing flexibility in networking and adaptability to various complex scenarios.
- 6) Provides 802.11b/g/n WiFi 300M wireless access, paired with high-gain antennas, reaching up to 30 meters in open and unobstructed environments. It also provides 10/100Mbps wired access, with a standby capacity of up to 16 users.
- 7) Supports WPA/WPA2, SSID hiding, and blacklist features, effectively ensuring user data security.
- 8) Offers rich status indicator lights, status overview, and an easy-to-read log system, making it easy to monitor device operation. It also includes built-in traffic statistics and traffic assistant features, keeping users informed about their data usage.
- 9) Built-in quick setup wizard, allowing easy use of 4G LTE for WiFi internet access without requiring specialized knowledge.
- 10) Customizable deployment based on the TR069 protocol centralized management platform, providing real-time awareness of device operating status and facilitating large-scale deployments.
- 11) Continuous product updates, feature enhancements, and performance optimizations to ensure compatibility with various network environments and enhance user experience.

TECHNICAL SPECIFICATION

Model	EW321
Hardware Configuration	
Main chipset	MT7628KN
Clock Frequency	575MHz
Memory	8MB
Flash	2MB
Wireless Technology	802.11b/g/n 300Mbps MIMO
Device interface	WAN/LAN conversion *1 10/100Mbps adaptive Ethernet port LAN *1 10/100Mbps adaptive Ethernet ports Nano-SIM card Type-C 5V power input interface
Button	RESET, press and hold for 5 seconds to restore factory settings
Indicator	POWER、WAN、4G、WiFi、LAN
Antenna	Built-in 2.4G 2dBi DIP metal antenna *2 Built-in 4G LTE 2dBi FPC antenna *2
Power	Type-C DC 5V/3A
Operating/Storage Temperature	-10℃ ~ 45℃/-20℃ ~ 70℃
Operating/Storage Humidity	5% ~ 95% (Non-condensing)
Size	9.8*9.8*1.7cm
Weight	0.3kg
WiFi Specification	
Frequency Range	802.11b/g/n:2.4~2.4835GHz
Channel	1、2、3、4、5、6、7、8、9、10、11、12、13
Modulation	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK,16-QAM) 802.11n: OFDM (BPSK, QPSK,16-QAM, 64-QAM)
Transmission Rate	11b up 11Mbps,11g up 54Mbps,11n up 300Mbps
Receiver Sensitivity	11b: $\leq -90 \pm 1.5\text{dBm}$ @1Mbps, $\leq -84 \pm 1.5\text{dBm}$ @11Mbps 11g: $\leq -86 \pm 1.5\text{dBm}$ @6Mbps, $\leq -69 \pm 1.5\text{dBm}$ @54Mbps 11n 20MHz: $\leq -85 \pm 1.5\text{dBm}$ @MCS0, $\leq -67 \pm 1.5\text{dBm}$ @MCS7 11n 40MHz: $\leq -82 \pm 1.5\text{dBm}$ @MCS0, $\leq -64 \pm 1.5\text{dBm}$ @MCS7
Transmit Power	11b: $\geq 20 \pm 1.5\text{dBm}$ @11Mbps 11g: $\geq 20\text{dBm} \pm 1.5\text{dBm}$ @54Mbps 11n: $\geq 20\text{dBm} \pm 1.5\text{dBm}$ @MCS7

4G Specification	
Network Standard	LTE FDD/TDD
LTE-FDD	B1/B3/B5/B8(supporting hierarchical reception)
LTE-TDD	B34/B38/B39/B40/B41 (supporting hierarchical reception)
Transmission Rate	LTE FDD: Up 150Mbps(DL)/Up 50Mbps(UL) LTE TDD: Up 130Mbps(DL)/Up 30Mbps(UL)
Transmit Power	Class 3 (23dBm±2dB) LTE FDD Bands Class 3 (23dBm±2dB) LTE TDD Bands
Receiver Sensitivity	FDD B1: -99dBm (10M) FDD B3: -99dBm (10M) FDD B5: -100dBm (10M) FDD B8: -100dBm (10M) TDD B34: -98dBm (10M) TDD B38: -100dBm (10M) TDD B39: -98dBm (10M) TDD B40: -99dBm (10M) TDD B41: -99dBm (10M)
Software Functions	
Working Mode	4G/Router/AP
Number of connected users	16 Peoples
Management	The English web remote management/ Batch management based on the TR069 centralized management platform."
Status	-System Status/4G Status/Interface Status -User List -Black List
Network Configuration	-Network Configuration: Operating Mode (4G/Router/AP)/LAN/WAN -APN Settings
WiFi Settings	WiFi Switch/WiFi name/Encryption/WiFi password/ Hide WiFi/Wireless protocol/Wireless bandwidth/ Wireless channel/WiFi signal strength
Flow Assistant	Used/Remaining/This month has been used/Today Has been used/The end of the month/Monthly Package flow/Monthly settlement date/Flow control switch
System Management	-Managed Password -Local Time -Upgrade/Reset: Reset to defaults/Download backup configuration/Restore backup/Local Upgrade -System Log -Network Detection -Reboot: Reboot immediately/
Setup Wizard	System mode-WiFi

Product Dimension(mm)



Packing List

CONTENT	QTY	UNIT
4G Full Netcom 300M Mini WiFi Wireless Router (EW321)	1	SET
Type-C Power cord	1	PCS
Ethernet cable	1	PCS
User manual	1	PCS