

# 4G LTE Wireless Router

Model: HC318



## **Simple Introduction**

HC318 is a wireless communication product developed based on 4G network requirements. The wireless rate is up to 300Mbps, which can meet the needs of stable, safe and simple Internet access of small networks such as offices and homes. It can also be applied to the Internet of Things communication industry, providing users with wireless long-distance data monitoring, collection and transmission functions. Full netcom 4G network access, fully compatible with 4G/3G/2G networks, equipped with 3 10/100M adaptive Ethernet LAN interface, and the internal LAN connection; One 10/100m adaptive Ethernet WAN interface to provide wired broadband access.

## **Product Feature**

- Support 802.11n/b/g network protocol, support 802.3/802.3u protocol
- 4\*10/100Mbps Ethernet ports, 1 WAN port+3 LAN ports
- Built-in 4G solution, 1\*Nano SIM Card slot
- 2.4G Wifi, max support 300mbps rate
- Preload English version firmware
- 4\*non-removable external antennas

### **Product Datasheet**

Hardware Configuration	
Chipset	MTK7620N
The main frequency	580MHz
Wireless technology	802.11b/g/n 300M MIMO technology
Flash and Memory	64MByte DDR2

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Memory	8MB
Welliory	
Device interface	WAN 10/100Mbps Adaptive network interface*1
	LAN 10/100Mbps Adaptive network interface*3
	SIM card, Large size card
	5dBi directional glue stick antenna
Antenna	4G 2T2R 5dBi directional glue stick antenna*2
	WiFi 2T2R 2.4G 5dBi directional glue stick antenna*2
Power consumption	< 10W
Button	1 reset button, Press it long for 3 seconds to restore the factory settings
Indicator	POWER, WIFI, 4G, WAN, LAN1, LAN2, LAN3, Internet
Product size/weight	185*145*28mm/0.45kg
WiFi Features	
Wifi frequency	802.11b/g/n:2.4~2.4835GHz
	11b: DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps
Modulation mode	11g: OFDM: 64QAM@48/54Mbps,16QAM@24Mbps,
Wodulation mode	QPSK@12/18Mbps,BPSK@6/9Mbps
	11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM
	11b: 1/2/5.5/11Mbps
Transmission rate	11g: 6/9/12/18/24/36/48/54Mbps
	11n: Max. 300Mbps
	11b: <-84dbm@11Mbps;
Reception sensitivity	11g: <-69dbm@ 54Mbps;
	11n: HT20<-67dbm HT40: <-64dbm
	11b: 18dBm@ 1~11Mbps
Transmission power	11g: 16dBm @ 6~54Mbps
	11n: 15dBm@ MCS0~7
	IEEE 802.3(Ethernet)
Communication standard	IEEE 802.3u(Fast Ethernet)
	IEEE 802.11b/g/n(2.4G WLAN)
Wireless security	WPA/WPA2 Security mechanism (WPA-PSK USE TKIP OR AES)
Working/storage Storage	-10℃ ~ 50℃
temperature	-40℃ ~ 70℃
Working/storage humidity	5% ~ 95% (Non-condensation)

4G Features	
LTE-FDD	B1/B3/B7/B8/B20/B28
LTE-TDD	B38/B40/B41
WCDMA	B1/B8
CDMA	B1/B8
GSM	900MHz/1800MHz
GNSS function	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS

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Transmission power	Class 4 (33dBm±2dB) for GSM900
	Class 1 (30dBm±2dB) for DCS1800
	Class E2 (27dBm±3dB) for GSM900 8-PSK
	Class E2 (26dBm±3dB) for DCS1800 8-PSK
	Class 3 (24dBm+2/-1dB) for CDMA BC0
	Class 3 (24dBm+1/-3dB) for WCDMA bands
	Class 2 (24dBm+1/-3dB) for TD-SCDMA bands
	Class 3 (23dBm±2dB) for LTE-FDD bands
	Class 3 (23dBm±2dB) for LTE-TDD bands
	Supports a maximum 3GPP R8 non-CA Cat 4 FDD and TDD
LTE features	Support 1.4MHz~20MHz Radio frequency bandwidth, downside to support
	MIMO
	LTE-FDD: Maximum downlink rate 150Mbps, maximum uplink rate 50Mbps
	LTE-TDD: Maximum downlink rate 130Mbps, maximum uplink rate 35Mbps
	support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA
	support QPSK, 16-QAM and 64-QAM modulation
UMTS features	DC-HSDPA: Maximum downlink rate 42Mbps
	HSUPA: maximum uplink rate 5.76Mbps
	WCDMA: Maximum downlink rate 384Kbps, maximum uplink rate 384Kbps
	support CCSA Release 3 TD-SCDMA
TD-SCDMA features	Maximum downlink rate 4.2Mbps, maximum uplink rate 2.2Mbps
CDMA features	support 3GPP2 CDMA2000 1X Advanced and 1xEV-DO Rev.A
	EVDO: Maximum downlink rate 3.1Mbps, maximum uplink rate 1.8Mbps
	1 X A d va n c e d: Maximum downlink rate 3 0 7 . 2 K b p s, maximum uplink
	rate 307.2Kbps

Working mode	4G access, routing mode, and AP mode	
The load quantity	32 pcs	
Management style	WEB management	
The state	System status, interface status, and routing table	
Wireless configuration	WiFi Basic Parameter configuration/Blacklist	
Network Settings	Working mode LAN/WAN Address set	
Traffic assistant	Traffic statistics/package Settings/traffic control	
System	System properties/Password change/Upgrade backup/system logs/restart	
Setup wizard	Quick Configuration Wizard	
Blinking Rules for Indicators		
POWER	The POWER indicator is steady blue	
2.4G	The 2.4g WiFi is on, and the 2.4g indicator is blue on	

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# Shenzhen Huachuangyilian Electronics Co., Ltd. 10 network mode when the 4G network is normal, the 4G indicate

4G	In 4G network mode, when the 4G network is normal, the 4G indicator is steady blue. In 4G mode, 4G is abnormal, and the blue indicator blinks
WAN	When data is connected, the WAN indicator is steady blue
LAN1/LAN2/LAN3	When data is being accessed, indicators LAN1, LAN2, and LAN3 are steady blue
WIFI	2.4g wireless indicator light (WiFi is always on when turned on)
Internet	When WLAN or 4G is not connected, the flash is off, and the light is always on when connected

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