Shenzhen Huachuangyilian Electronics Co., Ltd.

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

Memory	8MB
Device interface	WAN 10/100Mbps Adaptive network interface*1 LAN 10/100Mbps Adaptive network interface*3 SIM card， Large size card
Antenna	5dBi directional　glue stick 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
Modulation mode	11b: DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps 11g: OFDM: 64QAM@48/54Mbps,16QAM@24Mbps, 　　　QPSK@12/18Mbps,BPSK@6/9Mbps 11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM
Transmission rate	11b: 1/2/5.5/11Mbps 11g: 6/9/12/18/24/36/48/54Mbps 11n: Max. 300Mbps
Reception sensitivity	11b: <-84dbm@11Mbps； 11g: <-69dbm@ 54Mbps； 11n: HT20<-67dbm　HT40: <-64dbm
Transmission power	11b: 18dBm@ 1~11Mbps 11g: 16dBm @ 6~54Mbps 11n: 15dBm@ MCS0~7
Communication standard	IEEE 802.3(Ethernet) 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 temperature	-10℃～50℃ -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
LTE features	Supports a maximum 3GPP R8 non-CA Cat 4 FDD and TDD 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
UMTS features	support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA support QPSK, 16-QAM and 64-QAM modulation DC-HSDPA: Maximum downlink rate 42Mbps HSUPA: maximum uplink rate 5.76Mbps WCDMA: Maximum downlink rate 384Kbps, maximum uplink rate 384Kbps
TD-SCDMA features	support CCSA Release 3 TD-SCDMA 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

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