

## 4G LTE Wireless Router

Model: WL283



### Simple Introduction

WL283 is a wireless communication product developed based on 4G network requirements. The wireless rate is up to 300 Mbps, 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 network 4G 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	8MB



Memory	64MB
Deviceinterface	WAN 10/100MbpsAdaptivenetworkinterface*1 LAN10/100MbpsAdaptivenetworkinterface*3 SIMcard, Large size card
Antenna	2.4G 5dBi antenna*2PCS 4G 5dBi antenna*2PCS
Powerconsumption	< 10W
Button	1 resetbutton, Pressitlongfor 3 secondstorethefactorysettings
Indicator	POWER,WIFI, 4G, WAN, LAN1, LAN2, LAN3, Internet
Productsize/ weight	185*145*28mm/0.45kg
<b>WiFiFeatures</b>	
Wififrequency	802.11b/g/n:2.4~2.4835GHz
Modulationmode	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
Transmissionrate	11b: 1/2/5.5/11Mbps 11g: 6/9/12/18/24/36/48/54Mbps 11n: Max 300Mbps
Receptionsensitivity	11b: <-84dbm@11Mbps; 11g: <-69dbm@ 54Mbps; 11n: HT20<-67dbmHT40: <-64dbm
Transmissionpower	11b: 18dBm@ 1~11Mbps 11g: 16dBm @ 6~54Mbps 11n: 15dBm@ MCS0~7
Communicationstandard	IEEE 802.3(Ethernet) IEEE802.3u(FastEthernet) IEEE802.11b/g/n(2.4GWLAN)
Wirelesssecurity	WPA/WPA2 Securitymechanism (WPA-PSKUSETKIPORAES)
Working/ storageStorage temperature	-10C ~ 50C -40C ~ 70C
Working/ storagehumidity	5% ~ 95% ( Non-condensation)

<b>4G Features</b>	
LTE-FDD	B1/B3/B7/B8/B20/B28
LTE-TDD	B38/B40/B41
WCDMA	B1/B5/B8;
GSM	B3/B8
GNSSfunction	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS



Transmissionpower	<p>Class4 (33dBm±2dB) forGSM900</p> <p>Class 1 (30dBm±2dB) forDCS1800</p> <p>ClassE2 (27dBm±3dB) forGSM900 8-PSK</p> <p>ClassE2 (26dBm±3dB) forDCS1800 8-PSK</p> <p>Class3 (24dBm+2/- 1dB) forCDMABC0</p> <p>Class3 (24dBm+1/-3dB) forWCDMAbands</p> <p>Class2 (24dBm+1/-3dB) forTD-SCDMAbands</p> <p>Class3 (23dBm±2dB) forLTE-FDDbands</p> <p>Class3 (23dBm±2dB) forLTE-TDDbands</p>
LTEfeatures	<p>Supportsamaximum 3GPPR8 non-CACat 4 FDDandTDD</p> <p>Support 1.4 MHz~20 MHzRadiofrequencybandwidth, downsidetosupport MIMO</p> <p>LTE-FDD: Maximumdownlinkrate 150Mbps, maximumuplinkrate 50Mbps</p> <p>LTE-TDD: Maximumdownlinkrate 130Mbps, maximumuplinkrate 35Mbps</p>
UMTSfeatures	<p>support3GPPR8 DC-HSDPA, HSPA+, HSDPA, HSUPAandWCDMA</p> <p>supportQPSK, 16-QAMand 64-QAMmodulation</p> <p>DC-HSDPA: Maximumdownlinkrate 42Mbps</p> <p>HSUPA: maximumuplinkrate 5.76Mbps</p> <p>WCDMA: Maximumdownlinkrate 384Kbps, maximumuplinkrate 384Kbps</p>
TD-SCDMAfeatures	<p>supportCCSARelease 3 TD-SCDMA</p> <p>Maximumdownlinkrate 4.2Mbps, maximumuplinkrate 2.2Mbps</p>
CDMAfeatures	<p>support 3GPP2 CDMA2000 1XAdvancedand 1xEV-DORev.A</p> <p>EVDO: Maximumdownlinkrate3.1Mbps, maximumuplinkrate 1.8Mbps</p> <p>1 X A d v a n c e d : Maximum downlink rate 3 0 7 . 2 K b p s , maximum uplink rate 307.2Kbps</p>

Workingmode	4 Gaccess, routingmode, andAPmode
The loadquantity	32 pcs
Managementstyle	WEBmanagement
Thestate	Systemstatus, interfacestatus, androutingtable
Wirelessconfiguration	WiFiBasicParameterconfiguration/ Blacklist
NetworkSettings	Workingmode LAN/WANAddressset
Trafficassistant	Trafficstatistics/ packageSettings/ trafficcontrol
System	Systemproperties/ Passwordchange/ Upgradebackup/ systemlogs/ restart
Setupwizard	QuickConfigurationWizard
<b>BlinkingRulesforIndicators</b>	
POWER	ThePOWERindicatorissteadyblue
2.4G	The2.4gWiFiison, andthe 2.4gindicatorisblueon

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	2.4GHz 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