



# u4G-UE1305

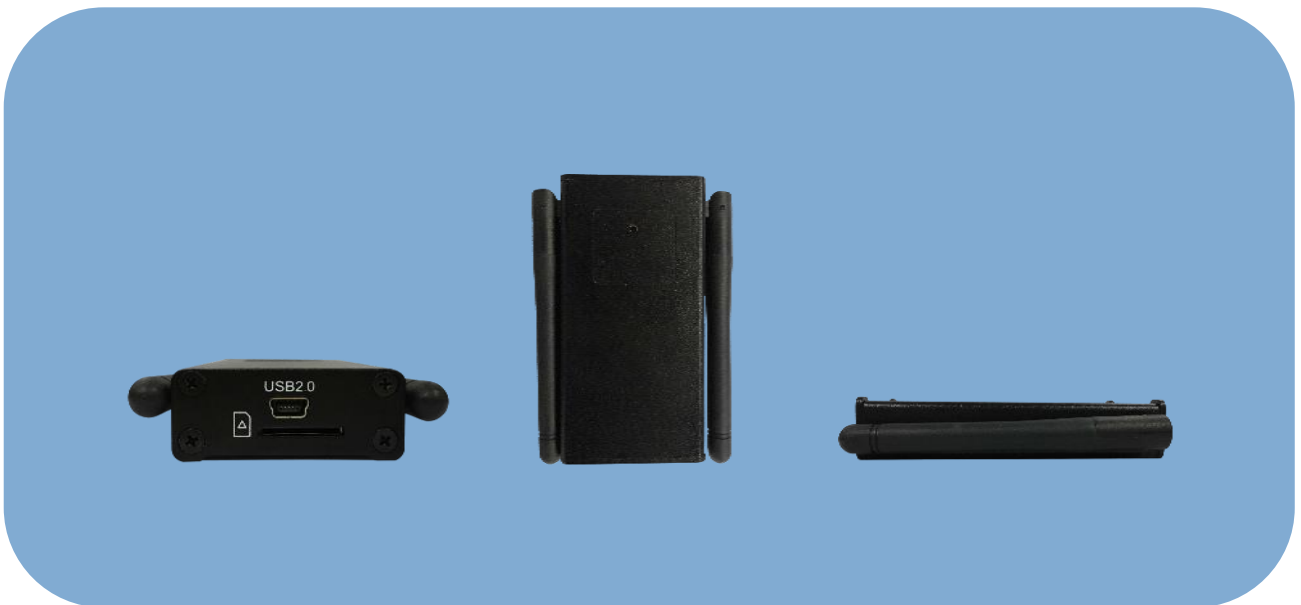
Indoor USB Dongle Specification

# Introduction

Baicells is a private, high-tech company providing innovative LTE wireless broadband access solutions. The Baicells solutions support fixed wireless access and mobile scenarios. With the vision to connect the unconnected, Baicells has introduced breakthrough technologies to LTE, like moving a complete LTE system to special spectrum and building it with an IT based architecture.

With the Baicells turnkey end-to-end solutions, it becomes much easier to provide wireless internet within everyone's reach at a very low cost. These innovative solutions can be used by mobile operators, broadband access operators, Internet Service Providers (ISP), Mobile Virtual Network Operators (MVNO), governments, and enterprise private networks.

The Baicells u4G-UE1305 B53 USB-dongle is a type of LTE indoor device working on B53 licensed frequency, which provides superior wireless access performance and comprehensive routing capabilities to bring wireless broadband data to end-users. **It can be connected with the USB interface of a computer by the USB Cable and then converts high-speed LTE TDD signals on the USB interface.**



The typical topology of u4G-UE1305 B53 USB-dongle deployment is as follows, which solution provides wireless broadband and wired Ethernet data services for customers.

## Highlights

- Supports LTE-TDD frequency bands 53.
- Complies with 3GPP Release 9 CAT4 standards.
- USB 2.0 interface.
- Convenient, simple, GUI-based local Web management.

## Basic Specifications

Item	Description
UE-Category	3GPP R9, CAT 4
USIM Slot	1.8V/3.0V USIM 2FF
Ethernet Port	1 USB 2.0 port
Power Supply	USB Input: 5V/0.8A
LED Indicators	SIM/PWR/LTE Signal
Dimensions	(L)88mm x (W)45mm x (H)18mm (without antenna)
Weight	About 200g

## LTE Specifications

Item	Description
LTE Mode	TDD
LTE Bands	B53 DL/UL : 2483.5MHz ~ 2495MHz
TXRX	1T2R
Peak Rate	<ul style="list-style-type: none"> <li>• 10MHz:               <ul style="list-style-type: none"> <li>SA1: DL 40 Mbps, UL 6.8 Mbps</li> <li>SA2: DL 54 Mbps, UL 3.4 Mbps</li> </ul> </li> <li>• 5MHz:               <ul style="list-style-type: none"> <li>SA1: DL 20 Mbps, UL 3.3 Mbps</li> <li>SA2: DL 27 Mbps, UL 1.6 Mbps</li> </ul> </li> </ul>
Channel Bandwidth	5MHz/10MHz
Modulation	UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM
Receive Sensitivity	-95dBm @ QPSK, 10MHz, 25°C
MAX Output Power	22dBm ( $\pm 2$ )/TX ANT
Antenna Type	Integration
Antenna Gain	3dBi

## SW Specifications

Item	Description
Language Support	English
IP Protocol	IPv4
Network Connection Management	Auto/Manual
Maintenance	<ul style="list-style-type: none"> <li>• Date &amp; Time setting</li> <li>• Reboot</li> <li>• Restore factory settings</li> <li>• Restore / Back up configuration file</li> <li>• Firmware upgrade locally</li> </ul>
System Log	<ul style="list-style-type: none"> <li>• Operating Log</li> <li>• Run-time Log</li> <li>• Filter/Select/Display/Export Log</li> </ul>
Antenna Select	NC

## Environmental Specifications

Item	Description
Operating Temperature	-5°C to 45°C
Storage Temperature	-40°C to 70°C
Operating Humidity	5% to 95%
IP Level	Indoor using

## Model List

Models	Description
u4G-UE1305	B53 USB-dongle ( LTE USB-dongle, TDD B53, CAT4, 1T2R, 1 USB2.0 )

## FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.