



LATAM-Columbia CLARO BLE HCI Dongle 2018

User Manual

September 11, 2018

Rev 1.0

Part Number: F12165BA00-00001

FCC ID: MG3-F12165

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1 Introduction

1.1 Purpose & Description

CLARO BLE HCI Dongle is a USB dongle based on CSR8510 A10 Chipset supporting Bluetooth BR/EDR and Bluetooth Low Energy (BLE)

This specific version will be configured as HCI Mode (Boot Mode 0) and operates as a standard HCI Bluetooth USB Device, controlled by the Host side. On this mode the Bluetooth stack reside on the Host side and is responsible for connections to HID peripherals.

1.2 Product Feature Summary

- Version: Bluetooth 4.0
- Bluetooth Technology
 - o Bluetooth Low Energy
 - o Dual-mode Bluetooth
- USB Version: USB 2.0
- Maximum Output Power: 9.75dBm transmitter
- Class Support
 - o Class 3
 - o Class 2
 - o Class 1
- Minimum Input Voltage: 4.8V
- Bluetooth Radio
 - o 50 Ohms
 - o -91dBm receiver sensitivity

2 Rendering and Key Description

2.1 Rendering

Dongle for Claro Colombia

1A

Dimensions: 23.5 x 14 x 6 mm
Batteries: None
Designer: Cesar Alvarado
Date: 12/05/17

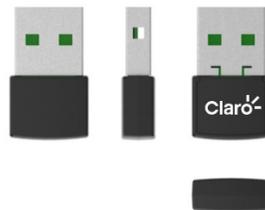
CT\Claro\Dongle for Claro Colombia

Top Case

● Pure Black
ABS,

Top Case Print

○ Pure White
Print, Matte Finish



NOTE: Colors on rendering are for reference only. Please refer to Pantone color book for true colors.

3 Performance Requirements

3.1 RF Range

50 meters minimum, open field.

3.2 Transmit Power

(Updated as applicable)

Conducted transmit power with transmit power setting to maximum, measured at antenna feed-point:

Parameter	Condition	Min	Typ	Max	Unit
TX Power	BLE		8	-	dBm

3.3 Receive Power

(Updated as applicable)

Conducted receive sensitivity measured at antenna matching input, shielded room

Parameter	Condition	Min	Typ	Max	Unit
RX Sensitivity	BLE		-92	-	dBm

3.4 Operating Temperature

Operating temperature: 0°C to 50°C

Non-operating temperature: -20°C to 60°C

3.4.1 ESD Protection

Standard product must meet 8kV air discharge.

All ESD tests shall be performed using the defined test systems as specified by the IEC 61000-4-2 2001 standard.

Federal Communication Commission Interference Statement

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 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.

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.

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.