

User Manual

CSR8510

Bluetooth 4.0 USB Dongle

FortiExplorer

Version: 0.1

Revision History

Version	Date	Revision Description	Editor
0.1	Sep 19 th , 2018	Preliminary	Tiffany

PRODUCT DESCRIPTION

CSR8510 A10 is a product from CSR'S connectivity Centre. It is a single-chip radio and baseband IC for Bluetooth 4.0 GHz(4.0 with 2.4GHz) systems including EDT(EDR) to 3 Mbps. Dedicated singal and baseband processing is included for full Bluetooth operation.

PRODUCT FEATURES:

- Fully qualified Bluetooth v4.0 specification system
- Support for Bluetooth v3.0 (For Bluetooth v3.0 + HS operation a separate 802.11 IC is used in conjunction with CSR8510 WLCSP) only available with CSR8510 A10
- Dual-mode Bluetooth / Bluetooth lower energy
- Full-Speed USB 2.0 interface
- Green(RoHS compliant and no antimony or halogendated flame retardants)
- Proximity, Generic Attribute Profile

SPECIFICATION

HARDWARE SPECIFICATION	
Standard	Bluetooth 4.0
Main chip	CSR8510 A10
Memory	EEPROM 32K CSR recommends a minimum 64Kb EEPROM when using HID functionality and 32Kb EEPROM for just HCI functionality.
Profiles	Bluetooth low energy Dual-mode Bluetooth
Frequency Band	2.402G – 2.480G
Sensitivity	- 86dBm@0.1% BER
RF TX Power	+6dBm (Class II)
Power	Supply voltage : 5V DC (MAX5.75V)
Working Current	Depends on profiles, 22mA typical
Standby Current (connected)	0.4 uA
Operating Temperature	0°C to +45°C, (32 ~ 122°F)
Storage Temperature	-20°C to 70°C, (-40 ~ 158°F)
Humidity	10% ~ 90% Non_Condensing
Environmental	RoHS Compliant

FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Industry Canada statement:

This device complies with ISED's licence-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations:

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.