

CL-8822CU

USB Dongle

CL-8822CU is a WLAN 11ac and Bluetooth combo dongle, provides a single USB interface to host, which fully supports the features and functional compliance of IEEE 802.11b/g/n/a/ac standards. Bluetooth v2.1 and v5.0 standards. It supports up to 866.7Mbps high-speed WLAN network connections and Bluetooth protocol stack.

It is designed to provide excellent performance with low power consumption and enhance the advantages of robust system and cost-effective.

CL-8822CU provides a complete solution for a high throughput performance integrated wireless LAN and Bluetooth module, and is targeted at competitive superior performance, better power management applications.

General Specification

Model Name	CL-8822CU
Product Name	USB Dongle
Standard	IEEE 802.11b/g/n/a/ac/ Bluetooth v2.1/v5.0
Data Transfer Rate	WLAN: 802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: MCS0 to 7 for HT20MHz, MCS0 to 7 for HT40MHz 802.11ac: MCS0 to 8 for HT20MHz, MCS0 to 9 for HT40MHz, NSS1 MCS0 to 9 for VHT80MH Bluetooth: Basic rate: 1Mbps Enhanced data rate: 2, 3 Mbps Low Energy: LE_1Mbps, LE_125kbps, LE_500kbps, LE_2Mbps
Modulation Method	WLAN: CCK, DQPSK, DBPSK, BPSK, QPSK, 16QAM, 64QAM, 256QAM Bluetooth: 8DPSK, $\pi/4$ DQPSK, GFSK
Frequency Band	2.4GHz and 5GHz ISM Band
Spread Spectrum	IEEE 802.11b: CCK (Complementary Code Keying) IEEE 802.11g/n/a/ac: OFDM (Orthogonal Frequency Division Multiplexing) Bluetooth: FHSS (Frequency Hopping Spread Spectrum)
RF Output Power (tolerance $\pm 1.5/-2$ dBm)	WLAN: 18dBm, EVM < 8% – 802.11b@CCK 11Mbps 17dBm, EVM < -25dB – 802.11g@OFDM 54Mbps 16dBm, EVM < -28dB – 802.11n@MCS7_HT20 16dBm, EVM < -28dB – 802.11n@MCS7_HT40 16dBm, EVM < -25dB – 802.11a@OFDM 54Mbps 14dBm, EVM < -32dB – 802.11ac@NSS1 MCS9_BW80 Bluetooth: 8dBm
Receiver Sensitivity	WLAN: <-76dBm – 802.11b@11Mbps <-65dBm – 802.11g@54Mbps <-64dBm – 802.11n@MCS7_BW20 <-61dBm – 802.11n@MCS7_BW40 <-51dBm – 802.11ac@NSS1_MCS9_BW80 Bluetooth: <-85dBm, BER < 0.01% – Basic rate @1Mbps <-80dBm, BER < 0.1% – Enhanced data rate @2,3Mbps

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	<-85dBm, BER<=-30.8% –Low Energy @1Mbps, 125kbps, 500kbps, 2Mbps,
Antenna	PIFA Antenna
Power supply	USB / DC 5V
Operating Temperature	0 - 50° C ambient temperature
Storage Temperature	-40 ~ 85° C ambient temperature
Humidity	5 to 90 % maximum (non-condensing)
Size	29.5 x 16 x 8mm (L x W x H)

Product label



FCC ID: 2BMB2-CL8822CU

IC: 33371-CL8822CU

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.

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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

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.

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.

Caution

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

(iii) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;

(iii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement

This equipment complies with ISED 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.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.