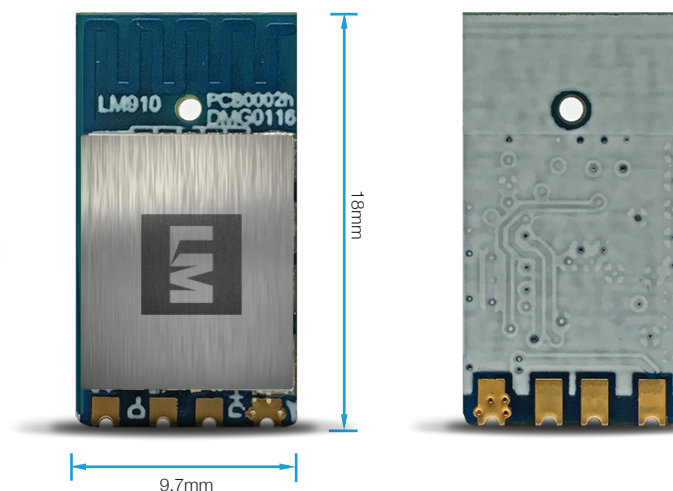
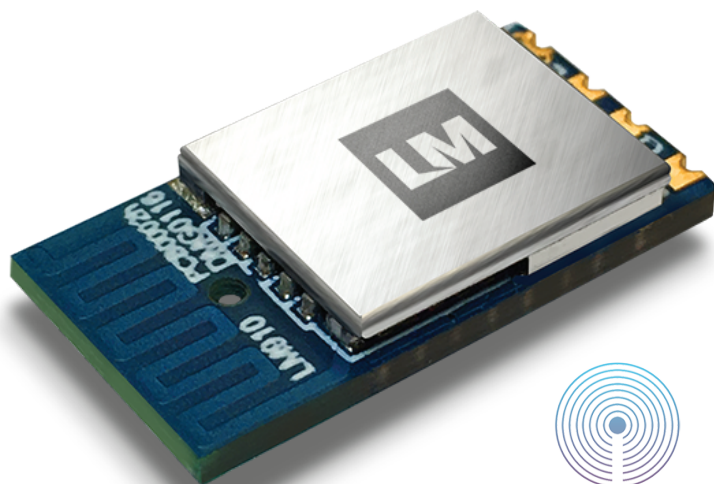




LM910 Bluetooth 4.0 (Classic + LE) HCI Compact USB SMT Module

Dual-Mode with 110m Estimated Max. Distance with Integrated Antenna

Product LM910
Part No 910-0630
Revised 04/APR/2016



Features

- Bluetooth 4.0, Classic + EDR and LE.
- Powered from USB only.
- Broadcom 20702 IC
Compatible with 17 profiles.
- Widcomm 7 Software downloadable for Windows 8/8.1
Windows 7, Windows Vista or Windows XP operating system.
- Up to 3Mbps (2.1Mbps throughput)
- Compact size: 18mm x 9.7mm x 2mm
- 9.8 dBm Output
- Up to 110m distance in open space.
- FCC, RTTE, RoHS and BQB certified with SIG and other certifications ongoing.
- Smart Ready
- Dual-Mode with Integrated Antenna
- USB Interface only
- Low cost solution
- PLC packet loss concealment
- iBeacon compatible
- Low power consumption
- Excellent compatibility
- Integrated Antenna
- EOL (End of Life) expected to be 10 Years +

Overview

The LM910 has a wide range of uses thanks to the array of profiles available with the Widcomm Bluetooth stack, along with excellent compatibility with other OS stacks such as Linux's BlueZ.

Its exceptional performance will allow users to connect up to 110 mtrs via Bluetooth 4.0, Classic, EDR and LE standards.

This is a very small form factor and high performance module which allows you to connect to up to 7 Bluetooth devices simultaneously. The module is backward compatible with Bluetooth 2.0 and Bluetooth 2.1 + EDR devices and also supports connection to Bluetooth 3.0 and Bluetooth Low Energy Devices (BLE).

The module integrates high performance Bluetooth Radio, Baseband, Link Manager, Host Controller Interface and is compatible with all Bluetooth stacks. The LM910 is ideally suited for Bluetooth connectivity to serial adapters, laptops, PC's, Bluetooth Low Energy Devices and Mono and stereo headsets.



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3. Packaging Options

Tray

Part No 910-0630

50 Pieces per tray.
 20 x Tray = 1000 pcs per carton.

- Product User Guides, Manuals and Configuration Software is available to download via our website - <http://www.lm-technologies.com/downloads>

General Specification

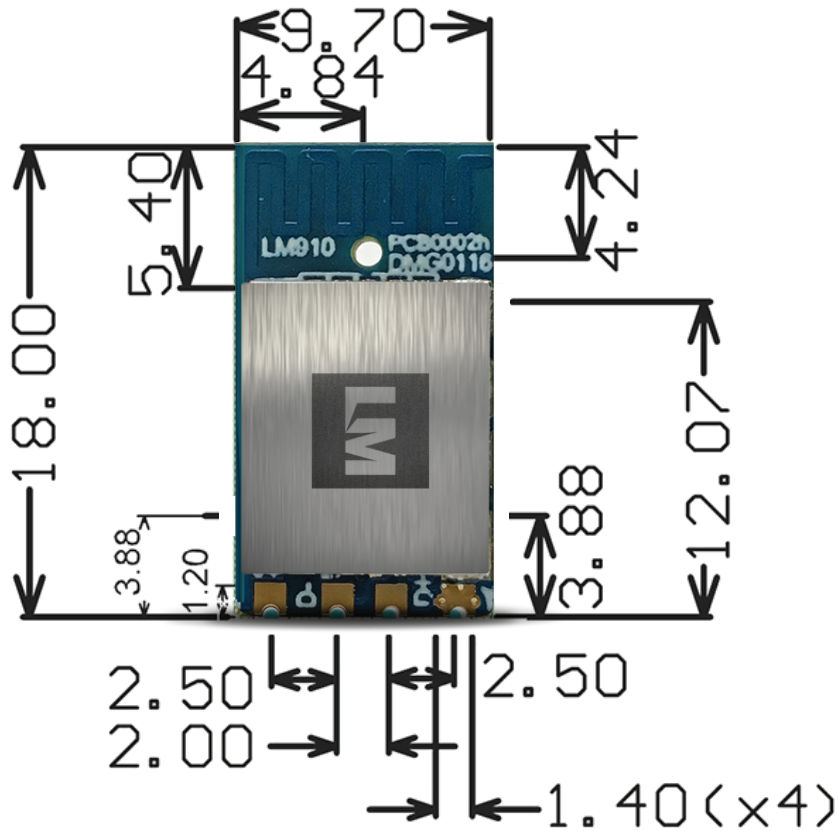
Chipset	Broadcom 20702
Class	Class 1
Speed / Bandwidth	Up to 3Mbps (2.1Mbps throughput)
Range	0 - 110m Estimated distance in open space
Interface	USB 2.0
Standard Bluetooth	Smart Ready, Bluetooth v 4.0, backward compatible to 3.0, 2.1, 2.0 + EDR devices.
Frequency	2.400 to 2.483.5 GHz
Hopping	1,600/sec, 1Mhz channel space
Firmware	HCI Mode
Rx Sensitivity	-86 dBm typical (TBC)
RF Output	Class 1 (9.8 dBm)
Power Supply	5V DC
Weight	2.2g approx
Temperature Range	-20 °C to +75 °C (Ambient) -40 °C to +85 °C (Storage)
Dimensions	18mm (L) x 9.7mm (W) x 2mm (H)
Profiles Supported	AVRCP, GAP, PAN, LAN, DUN, HID, FAX, SYNC FTP, HRCPP, BIP, GEOP, SDAP, OPP, SPP, HSP/HFP, A2DP, GATT
iBeacon	Compatible
Compatibility	Excellent compatibility with OS stacks such as Linux Kernel 3.0.34 BlueZ, W8/8.1, W7, Vista or XP operating systems.



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USB Pad Sizes



FCC Warning

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.

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

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Note 1: Compliance of this device in all final host configurations is the responsibility of the Grantee.

OEM integrators are responsible to satisfy RF exposure requirements. SAR evaluation is valid for mobile only applications (distance minimum 20cm to human bodies).

Note 2: Any modifications made to the module will void the Grant of Certification, this module is limited to OEM installation only and must not be sold to end-users, end-user has no manual instructions to remove or install the device, only software or operating procedure shall be placed in the end-user operating manual of final products.

Note 3: The device must not transmit simultaneously with any other antenna or transmitter.

Note 4: To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the module(s) installed and fully operational. For example, if a host was previously authorized as an unintentional radiator under the Declaration of Conformity procedure without a transmitter certified module and a module is added, the host manufacturer is responsible for ensuring that after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements. Since this may depend on the details of how the module is integrated with the host, LM Technologies Ltd. shall provide guidance to the host manufacturer for compliance with the Part 15B requirements.

Note 5: FCC ID label on the final system must be labeled with “Contains FCC ID: VVX-LM910-XXXX” or “Contains transmitter module FCC ID: VVX-LM910-XXXX”.

The transmitter module must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the host product. LM Technologies Ltd. is responsible for the compliance of the module in all final hosts.

IC WARNING

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This device and its antenna(s) must not be co-located with any other transmitters except in accordance with IC multi-transmitter product procedures. Referring to the multi-transmitter policy, multiple-transmitter(s) and module(s) can be operated simultaneously without reassessment permissive change.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner en association avec une autre antenne ou transmetteur.

This equipment complies with IC RSS-102 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.

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

This module is limited to OEM installation only and must not be sold to end-users, end-user has no manual instructions to remove or install the device, only software or operating procedure shall be placed in the end-user operating manual of final products. Additional testing and certification may be necessary when multiple modules are used.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

The final end product must be labeled in a visible area with the following " Contains IC: 10531A-LM910XXXX".