LM Technologies® designs and manufactures the latest wireless connectivity products using world-leading technology platforms, working with global partners such as Qualcomm.

Supplying the Internet of Things with Bluetooth® and WiFi™ solutions, including application development.

Our product range consists of wireless transceivers and stand-alone modules and adapters offering low power consumption and competitive pricing, backed by LM’s service and support.
Bluetooth® Adapters

LM048 Bluetooth® Serial Adapter
100m Distance with Onboard Antenna

LM068 Bluetooth® 5.0 Serial Adapter
The World’s Smallest BT5 Serial Adapter

LM506 Bluetooth® v4.0 Dual Mode Adapter
Host Controller Interface (HCI) via USB Interface

LM540 Bluetooth® v2.1 + EDR Adapter
Host Controller Interface (HCI) via USB Interface
EOL

LM1010 Bluetooth® v4.0 Adapter
Host Controller Interface (HCI) via USB Interface
Bluetooth® and WiFi Adapters

LM817 WiFi and Bluetooth® USB Adapter
v4.0 Dual Mode

LM842 WiFi and Bluetooth® 5.0 USB Adapter
BT5.0 & 802.11ac 2T2R / Metal Frame Antenna or SMA

LM845 WiFi and Dual Mode Bluetooth® 4.2 Combination Adapter
BT4.2 & 802.11ac
WiFi Adapters

LM808 WiFi USB Adapter
433Mbps 1T1R 802.11n

LM809 WiFi USB Nano Adapter
300Mbps 802.11n up to 280m range

LM816 WiFi USB Nano Adapter
HCI 802.11n

LM005 WiFi USB Adapter
With Built-in WPS Button 802.11 b/g/n/e/i
EOL

LM006 WiFi USB Nano Adapter
2.4 GHz Plug and Play USB 2.0 b/g/n/e/i
EOL

LM007 WiFi USB Nano Adapter
2.4 GHz Plug and Play USB 2.0 b/g/n/e/i
Bluetooth® Serial Adapters

LM048  Bluetooth®  LM068  Bluetooth® 5
Bluetooth® Serial Adapter Class 1 – LM048
100m Distance with On-Board Antenna

Features
- World's smallest RS232 Bluetooth® adapter.
- Multi power supply options, AC Mains via Mini USB, USB-Mini USB.
- Supports up to 100 meters (in open space).
- Unique Patented Firmware Enabling Serial Printer Functionality.
- DTR DSR Handshaking and RTS CTS Flow Control options available depending on the configuration.
- No need of external host or software, simply works as a standalone product.
  Ability to transfer DTR, DSR, RTS and CTS line status over air providing a true Serial Cable replacement solution. This functionality allows serial printers using DSR or CTS line for error reporting such as “Out of Paper”, “Printer Offline” etc.
- Ease of configuration and setup using LM149 Software.
Bluetooth® 5.0 Serial Adapter – LM068
100m Distance with On-Board Antenna

The LM068 is the world’s smallest Bluetooth® 5.0 Dual Mode Serial Adapter (RS232), providing a secure and reliable Bluetooth® 5.0 connection.

<table>
<thead>
<tr>
<th>WIRELESS STANDARD</th>
<th>2.0</th>
<th>2.1</th>
<th>4.0</th>
<th>4.1</th>
<th>5</th>
</tr>
</thead>
</table>

Features
- World's smallest Bluetooth® Serial Adapter
- DTE / DCE (Master / Slave) mode switch
- DTR / DSR Handshaking and RTS / CTS Flow control lines
- Full Duplex for simultaneous communication between sender and receiver
- Low Power Consumption
- Over-the-Air Upgrade (OTAU) available
- Application firmware support

COMPLIANCE

CERTIFICATIONS
Bluetooth® USB Adapters

LM506

LM540  EOL

LM1010
LM506 Bluetooth® v4.0 Dual Mode Class 2 USB Adapter

Host Controller Interface (HCI) via USB Interface

Features

- USB 2.0 (Full Speed) for data and power source
- Voice and Data Application support (including VoIP over Bluetooth®)
- Stereo Audio supported
- PLC packet loss concealment
- Beacon compatible
- Plug and Play (OSX, Linux and Windows XP – 10 compatible)
- EOL (End of Life) expected to be 10 years +
LM540 Bluetooth® USB Adapter Class 1 Long Range
Host Controller Interface (HCI) via USB Interface

END OF LIFE: Please enquire for remaining stock quantities.

Features

- World’s Smallest Bluetooth USB Adapter with SMA Connector
- USB 2.0 (Full Speed) for data and power source
- 787m Connection & Pass Data tested between 2 x LM540 each with 2dBi Antenna. (Tested at Eaton Dorney Olympic Rowing Park, Surrey England.)
- Plug & Play (OSX, Linux, Windows Core IoT and Windows XP – 10 compatible.)
- IVT Preloaded License available. LM tested a range of Bluetooth stacks and found IVT and LM540 recorded the lowest latency of any Bluetooth stack in the retail market.
LM1010 Bluetooth® v4.0 Dual Mode Long Range USB Adapter
Host Controller Interface (HCI) via USB Interface

Features
- USB 2.0 (Full Speed) for data and power source
- Voice and Data Application support (including VoIP over Bluetooth®)
- Stereo Audio supported
- PLC packet loss concealment
- Plug and Play (OSX, Linux and Windows XP – 10 compatible)
- iBeacon compatible

CERTIFICATIONS
LM005 WiFi USB Adapter 300Mbps
With Built-in WPS Button 802.11 b/g/n/e/i

END OF LIFE: Please enquire for remaining stock quantities.

Features
- Data Rates of up to 300 Mbps.
- Operates in 2.4 GHz band.
- WPS button (Wi-Fi Protected Setup) for easy and secure establishment in a wireless network.
- BPSK, QPSK, 16 QAM, 64 QAM, DBPSK, DQPSK, and CCK modulation schemes.
- WEP, TKIP, and AES, WPA, WPA2 hardware encryption schemes.
- Supports infrastructure networks via access point and ad-hoc network via peer to peer connections
- Up to 180m range in open space.

CERTIFICATIONS

CE

FCC

LM TECHNOLOGIES

www.lm-technologies.com
LM006 WiFi USB Adapter 150Mbps
2.4 GHz Plug and Play USB 2.0 b/g/n/e/i

Features
- Operates in 2.4 GHz Frequency bands
- Up to 150Mbps Data Transfer Rate
- 1×1 SISO technology improves effective throughput and range over existing
- 802.11 b/g products 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM and 64 QAM modulation schemes
- WEP, TKIP, and AES, WPA and WPA2 encryption schemes
- FullyFeatured software utility for easy configuration and management
- Can be setup as a ad-hoc network via peer to peer communications
- Small convenient size

END OF LIFE: Please enquire for remaining stock quantities.
LM007 WiFi USB Adapter 150Mbps
2.4 GHz Plug and Play USB 2.0 b/g/n/e/i

Features
- WiFi 802.11 b/g/n
- Operates in 2.4 GHz Frequency bands
  Plug and Play (Linux, macOS X, Windows 10 IoT Core, Windows XP to 10 and Windows Compact
  Embedded 6/7 compatible))
- Up to 150Mbps Data Transfer Rate 1×1 SISO technology improves effective throughput and range over
  existing
- 802.11 b/g products 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM and 64 QAM modulation schemes
- WEP, TKIP, and AES, WPA and WPA2 encryption schemes
- Fully-featured software utility for easy configuration and management
- Can be setup as an ad-hoc network for peer to peer communication
- Small convenient size

CERTIFICATIONS
LM808 WiFi USB Adapter 433Mbps
1T1R 802.11 a/b/g/n/h/i/e/ac

Features
- Supports All IEEE Standards
- IEEE 802.11ac/a/b/g/n/d/e/h/i
- Backward compatible with 802.11a/b/g devices while operating over 802.11n
  - Maximum Data Rates at 72.2 Mbps Using 20MHz bandwidth, 150Mbps Using 40MHz bandwidth, 433.3Mbps
- Using 80MHz bandwidth
- Operates over ISM bands (2.4GHz and 5GHz)
- 20MHz / 40MHz / 80MHz Bandwidth Transmission Modulation
- OFDM with BPSK, QPSK, 16QAM, 64QAM and 256QAM
- Convolutional Coding Rate: 1/2, 2/3, 3/4, and 5/6
- WiFi Direct and support for WiFi P2P PAN network

CERTIFICATIONS
LM809 WiFi USB Adapter 300Mbps
802.11n b,g Up to 280Mtrs range

Features

- Operates in 2.4 GHz frequency bands
- 2×2 MIMO technology improves effective throughput and range over existing 802.11 b/g products
- Data rates: up to 300Mbps
- 802.11e-compatible bursting and I standards
- WEP, TKIP, and AES, WPA, WPA2 hardware encryption Schemes
- 2.4GHz ISM Band
- Standard 802.11n b,g
- BPSK, QPSK, 16 QAM, 64 QAM, DBPSK, DQPSK, and CCK modulation schemes.
- 2 Antennas
- Indoor range up to 100 meters, Outdoor up to 280 meters
- Small size Nano Adapter
- Supports WEP, TKIP, AES, WPA, WPA2
- Improved AP (Access Point) functionality
- Improved power management applications
- USB 2.0 High Speed, top performance.
- Operating Temperature 0 to 50°
LM816 WiFi USB Nano Adapter 150Mbps
1T1R 802.11n (b,g,n,e,i) up to 100Mtrs range

Features
- 1T 1R, Supporting 150Mbps Bandwidth
- Support for the IEEE 802.11 b/g/n/e/i standards
- Operates in 2.4 GHz frequency bands
- 1×1 MIMO technology improves effective throughput and range over existing 802.11 b/g products
- Data rates: up to 150Mbps
- 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM, 64 QAM, DBPSK, DQPSK, and CCK modulation schemes
- WEP, TKIP, and AES, WPA, WPA2 hardware encryption Schemes
- Small Size: 17mm x 15mm x 8mm
**LM817 WiFi and Bluetooth® v4.0 USB Dual Mode Adapter**

Host Controller Interface (HCI) via USB Interface

---

**Features**

- 1T1R, Supporting 150Mbps Bandwidth
- Support for the IEEE 802.11 b/g/n/d/e/h/i standards
- Enterprise level security – WPA/WPA2
- Bluetooth® v2.1 + EDR Class 1 – up to 3Mbps
- Supports Qualified Bluetooth® v3.0
- Supports Qualified Bluetooth® v4.0 Dual Mode (v2.0, v2.1 and low energy)
- Support Bluetooth® adaptive power management mechanism Full speed Bluetooth® Piconet and Scatternet supported

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**CERTIFICATIONS**
LM842 WiFi 802.11ac and Bluetooth® 5.0 Combi Adapter

USB 2.0 Interface

Features

- WiFi 802.11ac, abgn
- Wave-2 compatible with MU-MIMO
- Bluetooth® v5.0 Dual Mode
  (Backwards compatible from Bluetooth® v4.2)
- WPA, WPA-PSK, WPA2, WPA2 -PSK and WEP
- (64bit & 128bit) encryption schemes
- 2.4 GHz and 5GHz ISM Frequency bands

  - 2T2R 802.11n 2.4GHz WiFi 300Mbps data rate [Untested]
  - 2T2R 802.11ac 5GHz WiFi 867Mbps data rate [Untested]
  - 2T2R BT5.0 2.4GHz 1.3Mbps data rate [Tested]

- WiFi/Bluetooth® coexistence enabled
- USB 2.0 with multi interface controller
- 35-39mm x 18mm x 10mm
- Bluetooth® SIG, FCC & CE certifications prior to release.
- RoHS, REACH and WEEE
LM845 WiFi and Dual Mode Bluetooth® 4.2 Combination Adapter
Host Controller Interface (HCI) via USB Interface

Features
- 802.11ac MIMO solution for 5G band
- 433Mbps High Speed WLAN
- IEEE standards support: IEEE 802.11ac/a/b/g/n
- WPA/WPA2 certification for WiFi
- Bluetooth® 4.0 Dual Mode
- 5v or 3.3v Supply Options
- USB 2.0 (Full Speed) and PCM interface

Support for WiFi/Bluetooth® Coexistence, with both technologies active a slight drop in Wi-Fi throughput is noted.

Bluetooth® adaptive power management mechanism

Linux Support Kernel : 2.6.24 ~ 4.15.17
Support for MAC OSX 10.9/ - 10.13
Supported for Windows 7, 8, 8.1 and 10

CE / FCC Certified Solution

SIG Certification & CCATS due shortly.

RoHS, REACH and WEEE Compliant Solution

CERTIFICATIONS
## Bluetooth® Modules & Dev Kits

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM930</td>
<td>Bluetooth® v4.1 low energy U.FL</td>
</tr>
<tr>
<td>LM931</td>
<td>Bluetooth® v4.1 low energy IC</td>
</tr>
<tr>
<td>LM53X</td>
<td></td>
</tr>
<tr>
<td>LM746</td>
<td>Bluetooth® 5.0 Dual Mode Multimedia</td>
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<tr>
<td>LM747</td>
<td></td>
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<tr>
<td>LM074</td>
<td>Bluetooth® 5.0 Dual Mode</td>
</tr>
<tr>
<td>LM961</td>
<td>Bluetooth® 5.0 Dual Mode</td>
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<tr>
<td>LM55X</td>
<td></td>
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<tr>
<td>LM558</td>
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</tr>
<tr>
<td>LM910</td>
<td>Bluetooth® v4.0 low energy</td>
</tr>
</tbody>
</table>

**Others:**
- LM910: Bluetooth® v4.0 low energy
- LM961: Bluetooth® 5.0 Dual Mode
- LM558: Bluetooth® 5.0 Dual Mode
- LM746: Bluetooth® 5.0 Dual Mode Multimedia
- LM747: Bluetooth® 5.0 Dual Mode Multimedia
- LM930: Bluetooth® v4.1 low energy U.FL
- LM931: Bluetooth® v4.1 low energy IC

**Visit:** [www.lm-technologies.com](http://www.lm-technologies.com)
Bluetooth® & WiFi Modules

Our expanding range of reliable and competitive modules

LM813 WiFi 802.11ac / Bluetooth® 4.2 Module

LM843 WiFi 802.11ac / Bluetooth® 5.0 Module
  2T2R USB 2.0

LM811 WiFi 802.11n / Bluetooth® 4.0 Module

LM832 WiFi 802.11n / Bluetooth® 4.2 Module
  Programmable
WiFi Modules

Our expanding range of reliable and competitive modules

- LM511 WiFi 802.11ac PCIe
- LM820 WiFi 802.11n Module EOL
- LM521 WiFi 802.11n Module EOL
- LM800 WiFi 802.11n Module Programmable
- LM822 WiFi 802.11n Module
- LM823 WiFi 802.11n Module
LM511 802.11ac Dual Band 2T2R PCIe Minicard
PCIe Interface with 2 x IPEX Recepticals

- WiFi 802.11 ac (2×2 MIMO technology improves effective throughput and range over existing 802.11ac a/b/g/n products)
- Operates in 2.4 GHz and 5 GHz Frequency bands PCI express & IPEX recepticals (x2)
- Linux, Windows XP, Vista, 7, 8.1, 10 compatible
- Up to 866.7 Mbps High Speed Data Transfer Rate
- 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, DBPSK, DQPSK and CCK modulation schemes
- WEP, TKIP, and AES hardware encryption Schemes
- Support soft AP for Windows XP, Vista and Windows 7
- Data rates of up to 173.3 Mbps for 20 MHz channels and 400 Mbps for 40 MHz channels, and 866.7 Mbps for 80 MHz channels

- This card is also offered with or without a shielding cover. Please speak with our team for guidance when looking at this option.

CERTIFICATIONS
LM910 Bluetooth® v4.0 Dual Mode Module
Host Controller Interface (HCI) via USB Interface

Features
- Plug and Play (OSX, Linux and Windows XP – 10 compatible)
- Voice and data application support (including VoIP over Bluetooth®)
- Stereo Audio supported
- Beacon compatible
- SMT Side and Bottom Pads for easy production

CERTIFICATIONS

[Images of various certification logos]
LM961 Bluetooth® 5.0 Dual Mode Module
Standalone (With Embedded Bluetooth® 5.0 Stack)

Features
- Plug and Play (OSX, Linux and Windows XP – 10 compatible)
- Voice and data application support (including VoIP over Bluetooth®)
- Stereo Audio supported
- Beacon compatible
- SMT Side and Bottom Pads for easy production

Certifications

See our LM55X Development Kit for developing with this module
LM074 Bluetooth® 5.0 Dual Mode Module
Standalone (With Embedded Bluetooth® 5.0 Stack)

**Features**
- Class 1 Tx Out Power
- Low Power Consumption
- Application firmware support
- Configurable with AT Command Set
- Requires no external hardware
- RTS/CTS Flow control UART lines
- 11 digital and 3 analogue I/O
- SMT Side and Bottom Pads for easy production

**COMPLIANCE**

**CERTIFICATIONS**
LM931 Bluetooth® v4.1 low energy Module with IC Antenna
Standalone (With Embedded Bluetooth® v4.1 Stack)

Features

- Over-the-Air Upgrade (OTAU) available
- Firmware development support
- IoT Applications Available (e.g: Cloud Sensor & Cloud Connector, Eddystone Beacon™, Serial Over GATT)
- Fully integrated module with no additional components required
- Small footprint

See our LM53X Development Kit for developing with this module
**LM930 Bluetooth® v4.1 low energy Module with U.FL**

Standalone (With Embedded Bluetooth® v4.1 Stack)

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**Features**

- Over-the Air Upgrade (OTAU) available
- Firmware development support
- IoT Applications Available (e.g. Cloud Sensor & Cloud Connector, Eddystone Beacon™, Serial Over GATT)
- Fully integrated module with no additional components required
- Small footprint

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**CERTIFICATIONS**

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See our LM53X Development Kit for developing with this module
LM746 Bluetooth® 5.0 Dual Mode Multimedia Module
Standalone (With Embedded Bluetooth® 5.0 Stack)

Features
- Application Firmware Support
- aptX® codec (including support for SCMS-T) and Faststream codec
- CSR’s cVc noise-cancellation technology
- Integrated 16-bit Stereo Audio CODEC
- SBC, MP3 and AAC decoder
- 6 Capacitive touch sensor input interfaces
- Microphone input and Speaker output interfaces

WIRELESS STANDARD
2.0 2.1 3.0 4.0 4.1 5

COMPLIANCE
REACH RoHS
LM747 Bluetooth® 5.0 Dual Mode Multimedia Module
Standalone (With Embedded Bluetooth® 5.0 Stack)

Features
- aptX® and Faststream CODEC
- SBC, MP3 and AAC decoder
- CSR's cVc technology for noise-cancellation
- Microphone input and Speaker output interfaces
- SMT Side and Bottom Pads for easy production

COMPLIANCE
- REACH
- RoHS
LM811 WiFi and Bluetooth® v4.0 Dual Mode USB Module

Host Controller Interface (HCI) via USB Interface

**Features**
- IEEE standards support: 802.11 b/g/n
- Bluetooth® v2.1 + EDR Class 1 – up to 3Mbps
- Supports Qualified Bluetooth® v3.0
- Supports Qualified Bluetooth® v4.0 Dual Mode
- Bluetooth® & low energy
- Full speed Bluetooth® Piconet and Scatternet supported
- Enterprise level security – WPA/WPA2 certification for WiFi
- A single USB Interface
- 1T 1R, Supporting 150Mbps Bandwidth
- Support sophisticated WiFi/BT coexistence mechanism to enhance collection performance
- Support Bluetooth® adaptive power management mechanism
- RoHS & WEEE Compliant + Low Halogen Compliance
- Android 4.4 Compatible

**CERTIFICATIONS**
LM832 WiFi and Bluetooth® v4.2 Dual Mode Combi Module
Host Controller Interface (HCI), Programmable, Standalone with SDIO and UART

Features
- Full speed Bluetooth® Piconet and Scatternet supported
- Enterprise level security – WPA/WPA2 certification for WiFi
- 1T 1R, Supporting 150Mbps Bandwidth
- Support sophisticated WiFi/BT coexistence mechanism to enhance collection performance
- Support Bluetooth adaptive power management mechanism

COMPLIANCE

DEVELOPMENT KIT
LM522 (enquire)

CERTIFICATIONS

CE
FC
LM820 WiFi 802.11 b/g/n Module with IC Antenna

Host Controller Interface (HCI) via USB Interface

Features

- Operates in 2.4 GHz frequency bands
  - 1×1 SISO (Single Input / Single Output) technology improves effective throughput and range over existing 802.11 b/g products
- Data rates: up to 150Mbps
- 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM, 64 QAM modulation schemes
- WEP, TKIP, and AES, WPA, WPA2 hardware encryption schemes
- Realtek RTL 8188CUS IC Onboard Antenna
- DC power input 3.3V or 5V input
- RF output by chip antenna(type-1)
- RF connector(type-2)
- RF pad on module(type-3)
- RF output on half-hole pin(type-4)
- WPS or PDN control function on half-hole pin 6
- Supports LED functions when choosing the WPS option

Important update for EU Sales

Not for Sale in the EU.
For European sales please see our LM822
LM821 WiFi 802.11 b/g/n Module with IPEX Receptical
Host Controller Interface (HCI) via USB Interface

Features

- Operates in 2.4 GHz frequency bands
  - 1×1 MIMO (Multiple Input / Multiple Output) technology improves effective throughput and range over existing 802.11 b/g products
- Data rates: up to 150Mbps
- 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM, 64 QAM modulation schemes
- WEP, TKIP, and AES, WPA, WPA2 hardware encryption schemes
- Realtek RTL8188CUS IC U.FL Receptical
- DC power input 3.3V or 5V input
- RF output by chip antenna(type-1)
- RF connector(type-2)
- RF pad on module(type-3)
- RF output on half-hole pin(type-4)
- WPS or PDN control function on half-hole pin 6
- Supports LED functions when choosing the WPS option

Important update for EU Sales
Not for Sale in the EU.
For European sales please see our LM823

CERTIFICATIONS
LM822 WiFi 802.11 b/g/n Module with IC Antenna
Host Controller Interface (HCI) via USB Interface

Features
- WiFi 802.11 b/g/n
- Operates in 2.4 GHz Frequency bands
  - Onboard Chip Antenna Plug and Play (Linux, macOS X, Windows 10 IoT Core, Windows XP to 10 and Windows Compact Embedded 6/7 compatible)
- Up to 150Mbps Data Transfer Rate
- 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM and 64 QAM modulation schemes
- WEP, TKIP, and AES, WPA and WPA2 encryption schemes
- Fully-featured software utility for easy configuration and management
LM823 WiFi 802.11 b/g/n Module with IPEX Receptical Host Controller Interface (HCI) via USB Interface

Features

- WiFi 802.11 b/g/n
- Operates in 2.4 GHz Frequency bands
- IPEX receptical Plug and Play (Linux, macOS X, Windows 10 IoT Core, Windows XP to 10 and Windows Compact Embedded 6/7 compatible)
- Up to 150Mbps Data Transfer Rate
- 802.11e-compatible bursting and I standards
- BPSK, QPSK, 16 QAM and 64 QAM modulation schemes
- WEP, TKIP, and AES, WPA and WPA2 encryption schemes
- Fully-featured software utility for easy configuration and management

CERTIFICATIONS

CE

FCC
LM813 WiFi and Dual Mode Bluetooth® 4.2 Combination Module
Host Controller Interface (HCI) via USB Interface

**Features**

- 1T1R One IPEX Antenna Output
- 802.11ac MIMO solution for 5G band
- 433Mbps High Speed WLAN
- IEEE standards support: IEEE 802.11ac/a/b/g/n
- WPA/WPA2 certification for WiFi
- Bluetooth® 4.0 Dual Mode
- 5v or 3.3v Supply Options
- USB 2.0 (Full Speed) and PCM interface

Support for WiFi/Bluetooth® Coexistence, with both technologies active a slight drop in Wi-Fi throughput is noted.

- Bluetooth® adaptive power management mechanism
- Linux Support Kernel : 2.6.24 ~ 4.15.17
- Support for MAC OSX 10.9/ - 10.13
- Supported for Windows 7, 8, 8.1 and 10
- CE / FCC Certified Solution
- SIG Certification & CCATS due shortly.
- RoHS, REACH and WEEE Compliant Solution
LM800 WiFi Module 150Mbps with IPEX Receptical Module
Standalone via UART, USB 2.0, SDIO, IS, SPI, IC and JTAG Interfaces

Features

- IEEE 802.11 b/g/n, single stream 1x1
- Single-band 2.4 GHz
- Data rates up to 150 Mbps
- UART, USB 2.0, SDIO, I²S, SPI, I²C and JTAG Interfaces
- 2MB SPI Flash Memory
- Full security support: WPS, WEP, TKIP, WPA (personal), WPA2 (personal)
- Realtime OS-ThreadX
- Low power mode
- Integrated IPv4/6 networking stack and Integrated Network services such as HTTP, DNS, FTP

- Industry-leading 802.11n WiFi solution
- Integrated on-chip application processor and memory (1.5MB)
- Integrated PA and LNA; support for external PA and external LNA
- Green Tx power saving mode
- Four-layer PCB design
- Full SDK Stack
- IoT Cloud, AWS and multiple cloud service provider support
- 30mm x 16mm x 2.6mm (Height includes shield)
- See our website for this products certifications.
- RoHS, REACH and WEEE
LM843 WiFi 802.11ac / Bluetooth® 5.0 2T2R USB Combi Module
XCVR SMT USB Module

Features

- 802.11ac MIMO solution for 5G band.
- Supports 802.11ac 2T2R, wave-2 compliant with MU-MIMO.
- Complies with USB Specification Revision 2.0
- Operates at ISM frequency bands (2.4GHz and 5GHz)
- IEEE standards support: IEEE 802.11b/g/n/a/ac
- 2x2 MIMO technology for extended reception robustness and exceptional throughput
- 5MHz / 10MHz / 20MHz / 40MHz / 80MHz bandwidth transmission OFDM with BPSK, QPSK, 16QAM, 64QAM and 256QAM modulation.
- Convolutional Coding Rate: 1/2, 2/3, 3/4, and 5/6
- Dual Mode supports simultaneous LE and BR/EDR
- Maximum PHY data rate up to 173.3 Mbps using 20MHz bandwidth, 400Mbps using 40MHz bandwidth, and 866.7Mbps using 80MHz bandwidth
- Backward compatible with 802.11a/b/g devices while operating at 802.11n data rate
- Supports Bluetooth v5.0, Compatible with Bluetooth v2.1, 4.0, & 4.2
- Supports Low Power Mode (Sniff / Sniff Sub-rating)
- Enhanced BT/WIFI Coexistence Control to improve transmission quality in different profiles
- Supports multiple Low Energy states
- RoHS compliance
- Low Halogen compliance
Bluetooth® & WiFi Accessories

Our range of reliable and competitive accessories including Dev Kits, Aerials, Convertors, Access Points, Power Supply and Cables

LM025 Converter
DB25 (Male) and DB9 (Male)

LM036 Gender Changer
D SUB 9 pin

LM060 Converter
DB9 and USB

LM240 iPex to RP Cable
100mm SMA Male Jack

LM242 Antenna Extension
With 1.5m Magnetic Base

LM251 Antenna
2.4G Dipole 2dBi

LM252 Antenna
2.4G Dipole 5dBi

LM253 Antenna
2.4G Dipole 7dBi

LM254 Antenna
2.4G Dipole 9dBi

LM255 Antenna
2.4G Dipole 1.5dBi

LM558 Dev Kit
Develop with LM BT Audio modules

LM53X Dev Kit
Develop with LM931 / LM930

LM55X Dev Kit
Develop with LM951 / LM961

LM153 Power Supply
Universal Attachments

LM161 USB Cable
Mini USB to USB
LM025 D25 to DB9 Converter Slimline
DB25 (Male) and DB9 (Male)

- DB25 to DB9 converter
- Connects our RS232 adapters to 25 pin devices
- Low cost solution
- Robust construction
- Accessory for our RS232 Adapters
- Size: 53mm x 18mm x 13mm
- Used to convert the serial signal between our Bluetooth Serial Adapters and any RS232 Serial Receipt printer
- Tested by SAMSUNG, Star Micronics, SNBC, Toshiba, EPSON and many other branded receipt printer manufacturers.
LM036 RS232 Gender Changer – 9 Pin Serial
D SUB 9 pin Gender Changer

- Male connector on both sides
- Robust construction
- Suitable for our RS232 adapters
- Low Cost solution
- Fits discreetly between the device and adapter
- The LM036 RS232 Gender Changer is a Female to Male convertor for our Bluetooth® Serial Adapters
- 30mm x 11mm x 18mm
LM060 RS232 to USB Converter FTDI
DB9 and USB connector

- Up to up to 6M bits/sec data rate
- Automatic handshaking is supported at the serial port
- Plug and Play Installation
- Robust construction
- Common for our RS232 adapters
- Low Cost solutions
- Easy to use with our plug and play support
- 70mm x 36mm x 16mm
LM240 iPex to RP 100mm Cable
100mm SMA Male Jack

- iPex to RP SMA Male Jack
- 100mm Cable
- Adds the possibility to add an aerial to one of the LM Module range of products
- See the LM411 Plug & Play Bluetooth® Module with UFL or iPEX Receptacle
- The LM400 module is being used in various applications such as: RS232 cable replacement, Wireless Factory monitoring, Truck/Bus monitoring system, PLC programming, Car Diagnostics, Wireless Printing, Wireless POS systems, Wireless logistics, Wireless machines (healthcare/industrial) for monitoring
LM242 SMA Antenna Extension
With 1.5m Magnetic Base

- Operates between 2.4Ghz – 2.5Ghz range
- Magnetic Base
- 1.5m cable
- Base connector SMA JACK Reverse Polarity
- Cable connector SMA PLUG Reverse Polarity
- Ideal for embedded systems
- Robust design suitable for all applications
- The magnetic base provides easy positioning
- The 1.5m cable provides flexibility of the antenna position
- Our range of Antenna’s can be offered with or without Retail packaging and/or can be branded for your company
LM251 2dBi Antenna RP SMA
2.4G Dipole 2DBi Antenna

- SMA Male Reverse Polarity Connector
- Matte Black
- Hinged
- Ideal for our products with SMA antenna connection
- Robust design suitable for most environments
- Hinged for easy positioning
- Low Cost Solution
- H 105mm x W 10mm x D 10mm
LM252 5dBi Antenna RP SMA
2.4G Dipole 5DBi Antenna

- SMA Male Reverse Polarity Connector
- Matte Black
- Hinged
- Ideal for our products with SMA antenna connection
- Robust design suitable for most environments
- Hinged for easy positioning
- Low Cost Solution
- H 200mm x W 13.7mm x D 13.7mm
LM253 7dBi Antenna RP SMA
2.4G Dipole 7DBi Antenna

- SMA Male Reverse Polarity Connector
- Matte Black
- Hinged
- Ideal for our products with SMA antenna connection
- Robust design suitable for most environments
- Hinged for easy positioning
- Low Cost Solution
- H 295mm x W 13.7mm x D 13.7mm
LM254 9dBi Antenna RP SMA
2.4G Dipole 9DBi Antenna

- SMA Male Reverse Polarity Connector
- Matte Black
- Hinged
- Ideal for our products with SMA antenna connection
- Robust design suitable for most environments
- Hinged for easy positioning
- Low Cost Solution
- H 390mm x W 13.7mm x D 13.7mm
LM255 1.5dBi Antenna RP SMA
2.4G Dipole 9DBi Antenna

- SMA Male Reverse Polarity Connector
- Matte Black
- 90 degree fixed
- Ideal for our products with SMA antenna connection
- Robust design suitable for most environments
- Low Cost Solution
- H 59 x W 6mm x D 16.5mm
LM153 Mini USB Power Supply
Universal Power Adapter with EU, UK, and US Attachments

- Mini USB connector
- Overload protection
- Certified to British & EU standards ensures safe use at all times.
- Power adapter suitable for LM048 and LM058 serial adapter
- Can be used for other 0.5a Mini USB Powered Devices
- Cable length 1.5m
LM161 Mini USB to USB Cable
Mini USB to USB Type A Cable

- 0.5m Length
- Black Shielded Cable
- Industry standard mini USB to USB connection
- Convenient length for many applications

The Mini USB to USB Cable is 0.5 meter cord from a Mini USB 2.0 TYPE B connector to a MALE USB TYPE A connector. It is designed to carry no higher than voltages from 100v up to 250v and currents up to 2.5A.

The cable used to between the connectors is two wire and is designed as USB twisted cable pair, where the "Data +" and "Data −" conductors are twisted together in a double helix. The wires are enclosed in a further layer of shielding.
Development Kits

LM558 Bluetooth® Audio Development Kit
Develop with LM Bluetooth® Audio modules
LM53X Bluetooth® low energy Development and Evaluation Product Family
Bluetooth® Development Kits for LM930 and LM931 Bluetooth® Modules

Features

- Fully licensed CSR toolchain (including CSR µEnergy SDK)
- (x)IDE and support documentation
- Example applications for popular Bluetooth® profiles Arduino™ compatible
- I2C, SPI and UART interfaces for breaking out I/O to application-specific sensors and actuators
- Onboard user programmable LEDs and switches
- Pins for power consumption measurements
- Onboard coin cell socket
- Voltage level translators from 3.3V module to 5V Arduino values
- 3.3V supply voltage regulator included
- Dimensions (L x W): 77.66mm x 53.35mm
- Mounting holes
LM55X Bluetooth® Dual Mode Development and Evaluation Product Family
Bluetooth® Development Kits for LM951 and LM961 Bluetooth® Dual Mode Modules

Features

- Hardware design guidelines
- Manufacturing packs for module reference designs
- Production test and configuration tools
- I²C, UART and USB interfaces for breaking out I/O to application-specific peripheral devices
- Onboard LEDs and switches
- Pins for current consumption measurements
- Onboard coin cell socket
LM558 Bluetooth® Multimedia Development Kit
Develop with LM Bluetooth® modules

Bluetooth® Multimedia Development Kit – LM558 can be used with our LM746 Module which offers Audio functionality and can be used with other Multimedia products.

Features
- LED Indications
- Onboard microphone and audio jack for audio testing
- Powered via USB port or DC Supply 5V
- Saves development time and cost when evaluating the module
- Can be used to evaluate the LM746 module
- Can be used to evaluate different variants of firmware