



## LM540 Long Range Bluetooth USB Adapter



The LM540 is a class 1 type Bluetooth USB Adapter that offers high data rates upto a range of 1000m.

Our range of SMA antennas with 2-9 dBi gain are separately available. A base mount option is also available for use with a 7dbi or 9bi antenna.

The LM540 Bluetooth USB adapter is an ideal solution for any application such as Bluetooth proximity marketing that requires an operating distance of 350m to 1000m (adapter to adapter only).

Bluetooth functionality such as wireless access to the internet, transfer of data, images, VOIP applications etc are also supported.

The adapter is packaged with BlueSoleil IVT software (for Windows). Toshiba software is also available on special request. Depending on the application we can advise which software is most suitable.

### Product Features:

- Enhanced range with Bluetooth Class 1 radio (Up to 1000m- adapter to adapter)
- Stereo audio supported. VOIP calls over bluetooth also supported
- Eliminates the need for cables between your computers and other Bluetooth devices
- Bluetooth v2.1 +EDR compliant backward compatible with Bluetooth v2.0 +EDR /v1.2/v1.1 specification
- Easy, fast, and intuitive installation and setup
- Bluetooth proximity marketing, Industrial wireless applications
- Compatible with Microsoft Bluetooth driver (supplied as part of Windows installation)
- Upto 3Mbps data rate
- Interoperable with PDAs and phones
- Small form factor (56 mm x 28 mm x 14 mm)
- Supports upto 7 ACL links and 3 SCO links
- USB 2.0 Device
- IVT Software provided with adapter. Toshiba Software available on request
- Easy, fast and intuitive setup and usage
- Lead free RoHS compliant



# LM540 Long Range

## Bluetooth USB Adapter

### Technical specification

#### Bluetooth Specification:

- Chip set: CSR BC04-ROM
- Bluetooth Class: v2.1 + EDR
- Data Rate Throughput: upto 3Mbps\*
- Profiles supported:
  - Toshiba Stack: SPP, DUN, FAX, LAP, OPP, FTP, HID, HDP, HCRP, PAN, BIP, HSP, HFP (including Skype support), A2DP, and AVRCP
  - IVT Stack: DUN, FAX, HFP, HSP, LAP, OBEXT, OPP PAN, SPP, A2DP, AVRCP, BIP, FTP, HID and SYNC
- Transmission class: Bluetooth Class 1 Radio

#### Physical Specification:

- Height: 14 mm
- Length: 56 mm
- Width: 28 mm
- Weight: 9 grams

#### Operating Parameters:

- Spread Spectrum: 2.4Ghz - 2.4835Ghz
- Modulation Method: GFSK, DQPSK, and DPSK
- Transmitter Power: +20 dBm (+6 dBm EDR)
- Range: upto 1000 m<sup>1</sup>
- Temperature: -40°C to 85 °C
- Receive Sensitivity: -86 dBm

#### Warranty:

- 12 months warranty

#### Certification:

- BQB, CE and RoHS

#### System Requirements

- Windows 2000/XP/Vista/Windows 7 (32 bit/64 bit)
- Linux (3rd party drivers required)

#### Notes:

\* Maximum wireless data rate derived from IEEE standard 802.15 specification. Actual throughput will vary. Network conditions and environment factors, including volume of network traffic, building materials and construction, and network overhead lower actual data throughput rate.

\*\* Maximum free space distance range between two LM540's with the above said antenna under ideal conditions as yet untested due to lack of ideal conditions

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#### Retail Specification:

- Package Height: 183mm
- Package Length: 135mm
- Package Width: 20mm
- Package Weight: 150 grams
- EAN: 5060077845411
- Carton Qty: 100
- Net Weight: 14 kg
- Gross Weight: 15 kg
- Carton Dimension: TBA
- Volumetric: TBA

#### Package Contents

- Bluetooth USB Adapter Class 1
- CD-ROM with IVT Software
- Quick Install Guide
- Warranty/Support Card
- LM251 2 dBm Antenna (500m range)

#### Optional Components

- LM-252 5 dBm Antenna (650m range)\*\*
- LM-253 7 dBm Antenna plus (800m+ range)\*\*
- LM-254 9 dBm Antenna plus (900m-1200m range)\*\*

#### LM Technologies Related Products

- LM-055 Bluetooth EDR USB Adapter
- LM-505 Bluetooth Nano USB Adapter