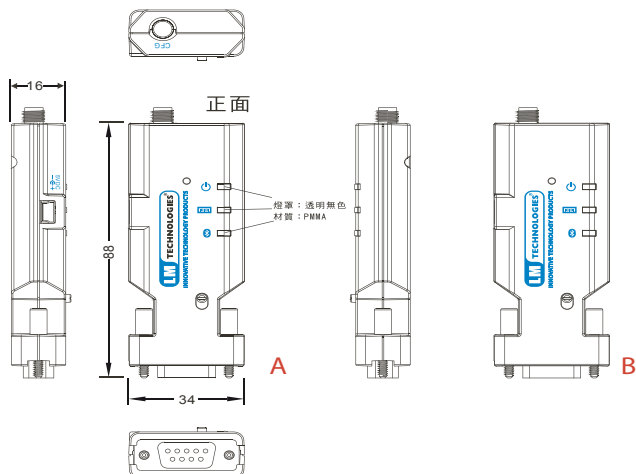




## LM058 RS232- Bluetooth Adapter

Part Number: LM-058



### General Specification

### Description

Baud Rate	Supports 1.2/2.4/4.8/9.6/19.2/38.4/57.6/115.2/230.4 Kbps
Coverage	Up to 100m
Connection	Point-to-point or multipoint (pico net)
Signals	TxD, RxD, GND, CTS, and RTS
RS-232 Interface	D_SUB 9-pin female
Standard	Bluetooth specification version 2.0 + EDR
Frequency	2.400 to 2.4835GHz
Hopping	1,600/sec, 1MHz channel space
Modulation	GFSK, 1Mbps, 0.5BT Gaussian
Tx. Power	Max. 18dBm (Class 1)
Rx. Sensitivity	-83dBm typical
Antenna	External SMA Antenna
Antenna Gain	2dBi antenna (default)
Power Supply	+5 to +9V DC
Current Consumption	Max. 140mA
Operation Temperature	-20°C to +75°C
Dimensions	35mm (W) x 65mm (D) x 16mm (H)

Pin	Signal	DTE to DCE	DCE to DTE	Description
1	CD	Input	Output	Not Connected
2	RxD	Input	Output	Received Data
3	TxD	Output	Input	Transmitted Data
4	DTR	Output	Input	Not Connected
5	GND	N/A	N/A	Signal Ground
6	DSR	Input	Output	Not Connected
7	RTS	Output	Input	Request to Send (Remarks)
8	CTS	Input	Output	Clear to Send (Remarks)
9	VCC	Input	Input	Power Supply

Remarks: The default hardware configuration is for using CTS/RTS. If you want to use DSR/DTR, please contact us.

### Factory Settings

The factory settings of COM port are as follows:

- Baud rate: 19200bps
- Data bit: 8
- Parity: none
- Stop bit: 1
- Flow control: H/W

The LM058 is one of the world's most versatile and technically advanced RS232 Bluetooth serial adapters.

### Features

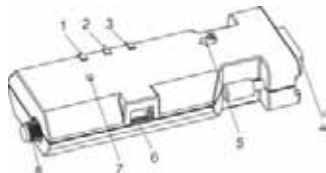
- Standard 9-pin DB9 connector which connects to the serial port of the PC/Laptop.
- The LM058 can communicate with another Bluetooth serial adapter or other Bluetooth devices such as a laptop computer, PDA or mobile phone.
- Applications range from Medical, Industrial, Telecom, Security, Automation, Manufacturing etc.
- Supports Bluetooth Serial Port Profile (SPP) and Bluetooth Generic Access Profile (GAP)
- Bluetooth Specification v2.0 + EDR compliant.
- 100 m (329 feet) range in open space as standard and with additional accessories such as LM253\* the LM058 can communicate upto 600 m

\*LM253: 7Dbi antenna



## Hardware Structure

The figure below is an outline of the adaptor.



1 Power LED	2 Data LED	3 Link LED	4 RS232 connector
5 Slide switch	6 Mini USB connector	7 Reset button	8 Antenna connector

## Reset Button

By pressing the Reset Button you can:

Disconnect or reconnect a wireless connection (after a short press)

Restore the factory settings (after a 3 seconds press)

## Slide Switch

The slide switch can swap TXD/RXD and RTS/CTS signals.

By changing the position of this switch you can set the adaptor as a DTE (towards antenna connector) or DCE (towards RS232 connector).

## Packaging

Bluetooth Serial Adapter

DB9 male to female converter

USB cable for power supply

DC adapter

2Dbi Antenna

User Manual

## Contact



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