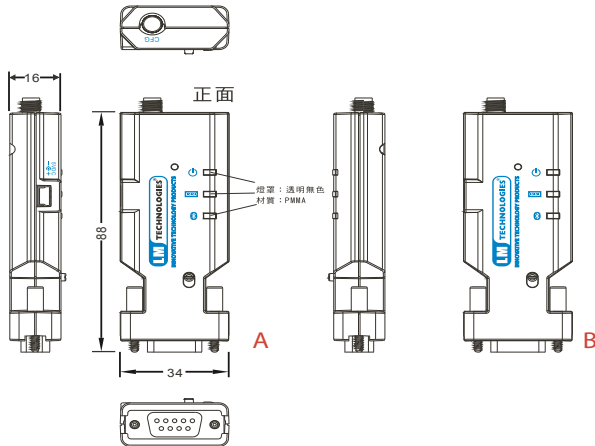


# RS232- Bluetooth Adapter

Part Number: LM-058



This makes the LM058 one of the worlds most versatile and technically advanced RS232 Bluetooth serial adapters.

a standard 9-pin Serial port to communicate wirelessly. You 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, Telecoms, Security, Automation, Manufacturing the list is endless.

The LM058 Supports Bluetooth Serial Port Profile and Bluetooth Generic Access Profile and uses the latest EDR V2.0 Chipset.

With a transmission range of upto 100 Meters (329 feet) as standard and with additional accessories such as the LM057 the LM058 can communicate upto 600 Meters

General Specification	Description
Baud Rate	Supports 4.8/9.6/19.2/3 4/57.6/115.2/230.4/460.8kbps
Coverage	Up to 100m
Connection	Point-to-point or multipoint (pico net) TxD, RxD, GND, CTS, and RTS
RS-232 Interface	D_SUB 9-pin female
Standard	Bluetooth specification version 1.2
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	Chip antenna or SMA female + external antenna (optional)
Antenna Gain	Chip antenna max. 1 to 2dBi
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	Direction	Description
2	TxD	Output	Transmitted data
3	RxD	Input	Received data
5	GND	N/A	Signal ground
7	CTS	Input	Clear to send (Remarks)
8	RTS	Output	Request to send (Remarks)
9	Vcc	Input	Power supply

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

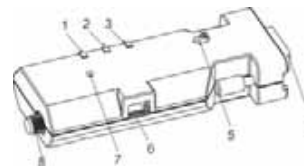
### Factory Settings

The factory settings of COM port are as follows:

- Baud rate: 19200bps
  - Data bit: 8
  - Parity: none
  - Stop bit: 1
  - Flow control: H/W or none
- Others: Please refer to section 4.3 AT Command Set.

### 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 and reconnect a wireless connection.