

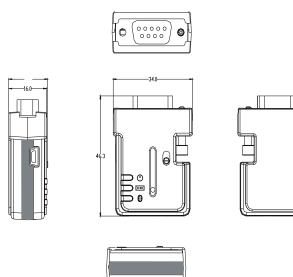


Product: LM048v2

Part No: 048-0000

LM048v2 Bluetooth RS232 Serial Adapter

100m Distance with On-Board Antenna





1 Features

- World's smallest RS232 Bluetooth adapter
- Multiple power supply options, AC Mains via Mini USB, USB-Mini USB
 No mains power cable needed as adapter can also be powered from RS232 Pin 9
- Supports upto 100 meters (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. Works as a standalone product

- Ability to transfer DTR, DSR, RTS and CTS line status over air providing true Serial Cable replacement solution. This functionality allows serial printers using DSR or CTS line for error reporting such "Out of Paper", "Printer Offline" etc
- Supports Bluetooth Serial Port Profile (SPP) and Generic Access Profile (GAP)
- CSR BC04 Bluetooth chipset with Bluetooth 2.0 + EDR firmware based design.
 Bluetooth 2.1 +EDR firmware also available
- Ease of configuration and setup using LM149 Software
- FCC, RoHS, BQB and RTTE certified

2 Overview

Data transfer made easy with World's smallest RS232 Bluetooth adapter. This adapter provides RS232 cable replacement for devices which use RTS/CTS flow control or DTR DSR Handshaking.

This Adapter can be powered from RS232 Pin 9 or from Mini USB Port via the AC mains adapter or Mini USB-USB cable.

Our new patented firmware replicated all RS232 control signals (DTR, DSR, RTS, and CTS) transfer over Bluetooth link.

Unlike other Bluetooth serial adapters in the market, a pair of LM048 adapters with its unique hadrware and firmware combination can act as a true straight or twisted serial cable solution.

LM Technologies Ltd provides a application called LM149 Configuration Software which allows easy configuration of these adapters. LM Technologies Ltd also provides option to configure the adapter from console using an inbuilt menu system. This option may be required for a device which has just keyboard and screen such as cash register. These units are FCC, RoHS, BQB and RTTE certified.





3 Packaging Options

SRP - Single Retail Pack

Part No 048-0012

1x Bluetooth Serial Adapter

1x DB9 male to female connector

1x USB - mini USB Cable for power supply

1x User Manual & Warranty Card

1x All in one power supply (UK, EU and US)

1x CD with LM149 Configuration Software

Optional:

LM025 Slim Line 9 pin to 25 pin Converter

TRP - Twin Retail Pack

Part No 048-0013

2x Bluetooth Serial Adapter

1x DB9 male to female connector

1x USB - mini USB Cable for power supply

1x User Manual & Warranty Card

1x All in one power supply (UK, EU and US)

1x CD with LM149 Configuration Software

Optional:

LM025 Slim Line 9 pin to 25 pin Converter

Product: LM048v2 Part No: 048-0000

AO - Adapter Only

Part No 048-0000

1x Bluetooth Serial Adapter

4 General Specification

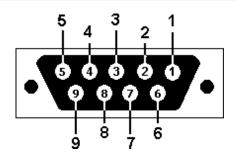
Specification	Description		
Baud Rate	1.2/2.4/4.8/9.6/19.2/38.4/57.6/115.2/230.4/460.8/921.6 Kbps		
Coverage	Upto 100 m		
Connection	Point -to-Point		
Signal	TxD, RxD, RTS, CTS, DTR, DSR and GND		
RS-232 Interface	D_SUB 9-pin female		
Standard Bluetooth	Specification 2.0 + EDR		
Frequency	2.400 to 2.4835 GHz		
Hopping	1,600/sec, 1MHz channel space		
Modulation	GFSK- Mbps, DQPSK-2 Mbps, and 8-DPSK-3Mbps		
Tx Power	Max 18 dBm (Class 1)		
Rx Sensitivity	-86 dBm typical		
Antenna	Chip Antenna		
Antenna Gain	Max. 1 to 2 dBi		
Power Supply	+4 to +13 V DC		
Current Consumption	Max 90 mA		
Operation Temparature	-20 °C to +75 °C		
Dimensions	46.3 mm (W) x 34 mm (D) x 16 mm (H)		





5 Signals

Female DB9



Product: LM048v2 Part No: 048-0000

Pin out for LM048v2 Adapter

Pin	RS232 Signal	DTE to DCE Direction	DCE to DTE Direction	Description	
1	CD	Input	Output	Not Connected	
2	RxD	Input	Output	Receive Data	
3	TxD	Output	Input	Transmit Data	
4	DTR	Output	Input	Data Terminal Ready	
5	GND	N/A	N/A	Signal Ground	
6	DSR	Input	Output	Data Set Ready	
7	RTS	Output	Input	Request to Send	
8	CTS	Input	Output	Clear to Send	
9	Vcc	Input	Input	Power Supply	

6 Factory Settings

The factory settings of the COM Port are as follows:

Baud Rate: 19200 bps

Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control: None

Customized settings are available as factory settings upon special request; Bonding, Pre-Pairing, different Baud Rates, Data Bits, Parity and Flow Control Settings

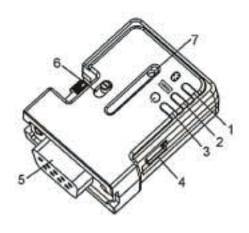




Product: LM048v2 Part No: 048-0000

7 Hardware Structure





1. Link LED	2. Data LED	3. Power LED	4. Mini USB Connector
5. RS232 Connector	6. Slide Switch	7. Reset Button	

Reset Button

By pressing the RESET button you can:

- Disconnect a wireless connection (after a short press)
- Restore the factory settings (after over 3 seconds press)

Slide Switch

The slide switch can swap TxD/RxD, RTS/CTS and DTR/DSR Signals. By switching, you can set the adapter as a DTE (towards antenna connector) or a DCE (towards RS232 connector).

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Interface Development Tools category:

Click to view products by LM Technologies manufacturer:

Other Similar products are found below:

CY4607M PEX 8748-CA RDK DP130SSEVM ISO3086TEVM-436 SP338EER1-0A-EB ADM00276 ADP5585CP-EVALZ PEX8724-CA RDK PEX 8732-CA RDK PEX8747-CA RDK AS8650-DB MLX80104 TESTINTERFACE I2C-CPEV/NOPB ISO35TEVM-434 KIT33978EKEVB 416100120-3 XR17D158CV-0A-EVB XR17V358/SP339-E4-EB XR17V358/SP339-E8-EB XR18910ILEVB XR22804IL56-0A-EB ZSC31050KIT V3.1 ZSC31150KIT V1.2 SCRUBBER-EVM SI838XISO-KIT 73931-3022 XIO2200AEVM XIB-E XBIB-U-SP TW-DONGLE-USB EVAL-ADM2483EBZ EVAL-ADM2491EEBZ ATUSB-PCB-80146 EVB-USB83340 MAX9921EVKIT MAXREFDES23DB# MAX9291COAXEVKIT# MAX9286COAXEVKIT# MAX3535EEVKIT+ MAX3223EEVKIT+ MAX3100EVKIT MAX13235EEVKIT MAX14970EVKIT# MAX14826EVKIT# 3298 XR21B1424IV64-0A-EVB XR21B1421IL24-0A-EVB XTIB-U XR17D152CM-0A-EVB XR22802IL56-0A-EB