

Eddy™ CPU/BT Module

Embedded CPU Bluetooth Module

Main Features

- Bluetooth Specification v2.0 + EDR
- Useful for Bluetooth-enabling users' devices
- Basic Transmit Power : Max. +18dBm, EDR Transmit Power : Max. +6dBm
- Receiving Sensitivity : -88dBm(0.1%BER)
- Supports Bluetooth profiles SPP (Serial Port Profile)
- External interface for UART
- Interoperability with PDA, laptops etc.
- Working distance (In an open field) : Nom. 100 meters, up to 1000m using patch antenna

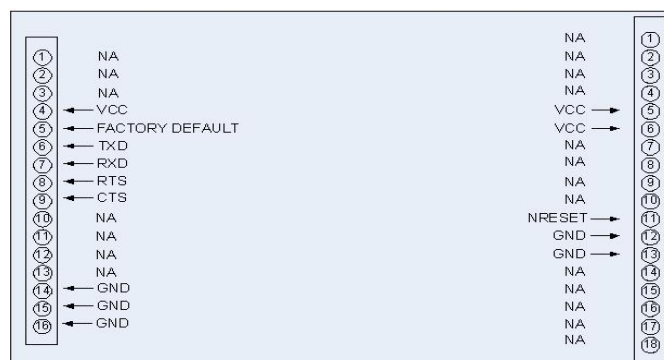


Eddy-BT is Class1 type Embedded Bluetooth Module for users to make their devices Bluetooth-enable. By default, it supports 100 meters of wireless transmit distance. The Eddy-BT has an extension option so that users can extend the transmit distance up to 1000 meters using optional antennas. It supports Bluetooth v2.0+EDR specification, and external interface UART.

Users may configure the Eddy-BT by using easy-to-use Windowsbased utility software or by using standard AT command set.

Typical application areas of the Eddy-BT include :

- RS232 cable replacement
- Truck/Bus monitoring system
- Car Diagnostics
- Wireless POS system
- Wireless Machine(Healthcare/Industrial) monitoring
- Wireless Factory monitoring
- PLC programming
- Wireless Printing
- Wireless Logistics



LEFT	Description	RIGHT	Description
1	NA	1	NA
2	NA	2	NA
3	NA	3	NA
4	VCC(3.3V)	4	NA
5	Factory Reset	5	VCC(3.3V)
6	UART TXD	6	VCC(3.3V)
7	UART RXD	7	NA
8	UART RTS	8	NA
9	UART CTS	9	NA
10	Pairing Signal	10	NA
11	H/W Reset	11	H/W Reset
12	NA	12	Ground
13	NA	13	Ground
14	Ground	14	NA
15	Ground	15	NA
16	Ground	16	NA
		17	NA
		18	NA

Eddy™ CPU/BT Spec

Serial Interface

UART

1.27mm header (1x16 & 1x18)

Serial UART speed up to 921Kbps

CTS/RTS flow control

Bluetooth Interface

Bluetooth v2.0 + EDR, Class1

Profile SPP(Serial Port Profile)

Working distance (in open field) Normal 100m (1dBi Stub Antenna)

Max. TX Power +18dBm

RX sensitivity -88dBm

Antenna gain
- Stub : +1dBi
- Dipole : +3dBi or +5dBi
- Patch : +9dBi

Power

3.3VDC, Max 60mA (Eddy-BT only)

Environment

Operating Temp -30 ~ 80°C

Storage Temp -40 ~ 85°C

Humidity 90% Non-Condensing

Approvals

CE Class A, FCC Class A, RoHS Compliant

Ordering Information

Eddy-CPU/BT Embedded Bluetooth Module

Package

Eddy-CPU/BT Eddy-CPU_BT Module & Utility/Document CD

