

Wireless Serial Adapter RCPORT-TD400series

The RCPORT-TD400 series are RS232, RS422/485 serial adapters that support Bluetooth Low Energy (BLE) 5.1. It can multiple communicate with up to 7 devices, and the basic transmission distance is 300 meters, which can be extended to about 1200 meters with additional antennas. It supports Android, Windows, Linux, and iOS. CHIPSEN also provides a dedicated program for setting up this product.



Convert Serial Data to Bluetooth

RCPORT-TD400 series converts RS232 · RS422 and RS485 serial data to Bluetooth and transmits it. These products perfectly replace the serial cable. So if you want to change your Serial communication from wired to wireless, the RCPORT-TD400 series must be the best solution for you.

Key Features



Serial Communication

RS-232, RS-422, RS-485 to wireless



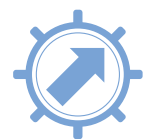
Bluetooth

Bluetooth Low Energy 5.1 Version



Communication Methods

1:1 Auto Piring / Advertising
Node Switching / Multi Pairing



Easy to Use

Anyone can use it
Easily using the dial



Transmit Distance

Supports 300 meters of transmit distance by default



Operating System

Android, iOS, Windows and Linux



Certifications

FCC / CE / TELEC / KC and Bluetooth SIG

















Setting Program

Setting program for Windows

Wireless Serial Adapter RCPORT-TD400

Product list

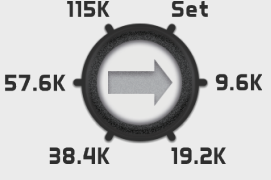
There are 4 products in RCPORT-TD400 series to optimize different environments. You can choose what you need. All products in this series can be connected to each other.

RCPORT-TD400	RCPORT-TD410	RCPORT-TD420	RCPORT-TD450
			
 232 RS232	 232 RS232	 232 RS232	 422 RS422
 Female D-sub9	 Female D-Sub9	 USB	 485 RS485
	 Battery		 male D-Sub9

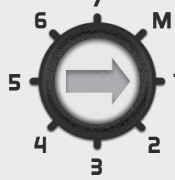
Easy to use

The RCPORT-TD400 series is very easy to set up for users. Each product in this series has two dials and one switch, and you can simply complete the setup. Just turning the dial into a driver and you're set. You can check the function of dials and a switch below.

* Each type of this series might have different dial.

Baud rate Dial
Set Baud rate



Device selection Dial
Select the device to connect



Operation Switch
Power off or set the role

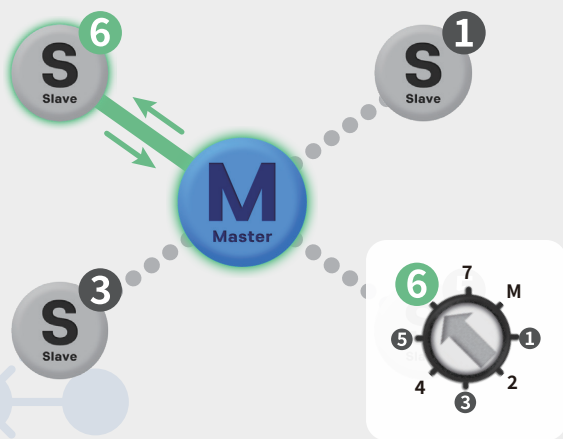
Wireless Serial Adapter RCPORT-TD400 series

Connection Methods

The RCPORT-TD400 Series supports 4 communication methods Auto Pairing, Node Switching, Multi Pairing and Advertising. You can easily select the one of ways using dial on the product.

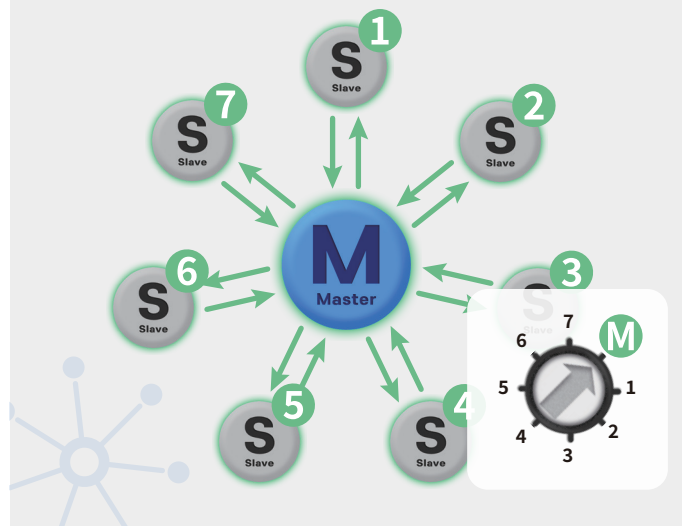
Node Switching

After registering slave devices to each number on a master device, you can select one of them to communicate with it by turning the device selection dial.



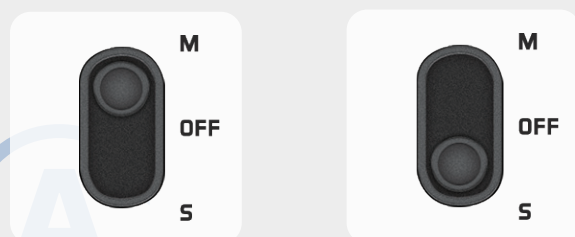
Multi Pairing

You can multi-communicate with up to 7 registered products by setting the device selection dial to M.



Auto Pairing

Set the operation switches for each product to M and S. They will automatically connect.



Advertising

Advertising data of the RCPORT-TD400 series can be read and communicated with Android and iOS.



Wireless Serial Adapter **RCPORT-TD400** series

Transmit Distance

The RCPORT-TD400 series use high-power Bluetooth technology to greatly extend the wireless communication range. It can communicate up to 1,000 feet by default and with an extendable antenna, it can communicate up to 4,000 feet. That's 30x better performance than other BLE products.



Transmit distance by Antenna

Default
(1dBi)

1,000 ft

Dipole Ant.
(5dBi)

2,500 ft

Patch Ant.
(8.5dBi)

4,000 ft

Operating System

RCPORT-TD400 Series supports Android, iOS, Windows and Linux OS(Operating system). Especially with Bluetooth Low Energy 5.1 allows you to communicate with iPhone, iPad, etc. by supporting iOS, unlike other Bluetooth Classic 2.0 serial adapters.



Setting Program





We provide a Windows program for more detailed setting of the RCPORT-TD400 Series. You can set the name of device, advertising interval, H/W flow control, etc on this program. Download at the CHIPSEN official website.



Wireless Serial Adapter

RCPORT-TD400 series

Specification

MODEL	RCPORT-TD400	RCPORT-TD410	RCPORT-TD420	RCPORT-TD450
PICTURE				
NETWORK CONNECTIVITY	Bluetooth			
BLUETOOTH STANDARD	Bluetooth Low Energy 5.1 , Class 1			
PORTS	Serial (RS-232)			Serial (RS-422 / 485)
CONNECTOR	Serial DB9 (F)		USB (virtual serial port)	Serial DB9 (M)
RF POWER	Max. +20 dBm			
TRANSMISSION DISTANCE	1,000ft by default			
SET UI	<ul style="list-style-type: none"> - Baud-rate setting dial - Device selection dial - Function selection switch 			<ul style="list-style-type: none"> - RS422 / 485 selection dial - Device selection dial - Function selection switch
NOTIFY UI	<ul style="list-style-type: none"> - Connect LED - UART Communication Tx/Rx Status LEDs - Power Status LED 			
POWER	DC 5 ~ 24 V		DC 5V	DC 5 ~ 24 V
BATTERY	Not Included	Built-in	Not Included	
ENVIRONMENT	<ul style="list-style-type: none"> - Operating Temperature : -20 ~ 70°C / Humidity less than 80% - Storage Temperature : -40 ~ 85°C / Humidity less than 90% 			
DIMENSIONS (L x W x H mm)	106 x 23 x 12.5	106 x 23 x 22.5	97 x 22 x 14	106 x 23 x 12.5
RECEIVING SENSITIVITY	-98 dBm			
CONNECTION METHODS	<ul style="list-style-type: none"> -Node Switching -Multi Pairing -Auto Pairing -Advertising 			
ANTENNA	+1 dBi			
TRANSMISSION SPEED	9,600 ~ 115,200 bps			
CERTIFICATIONS	FCC , CE , SIG , JAPAN MIC , KC			

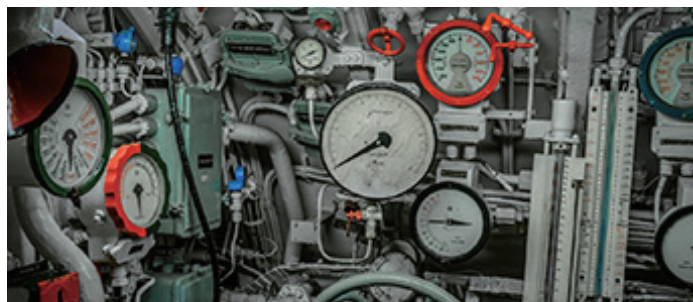
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Applications

RCPORT-TD400 Series have been using for many different fields since it released.



Industrial Machines



Instrumentation Equipment



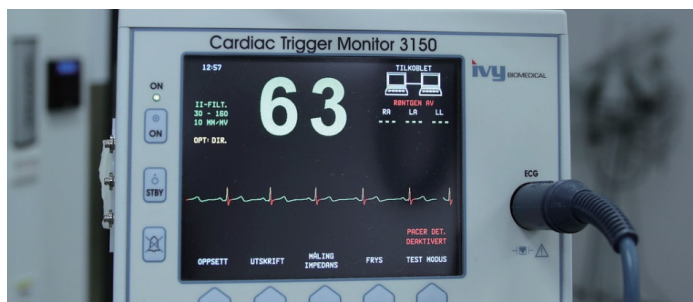
Smart Factory



POS System



Electronic Scales



Medical



Barcode Solution



Billboard