

SYRDBT

SYRIS Handheld bluetooth RFID Reader

V0200



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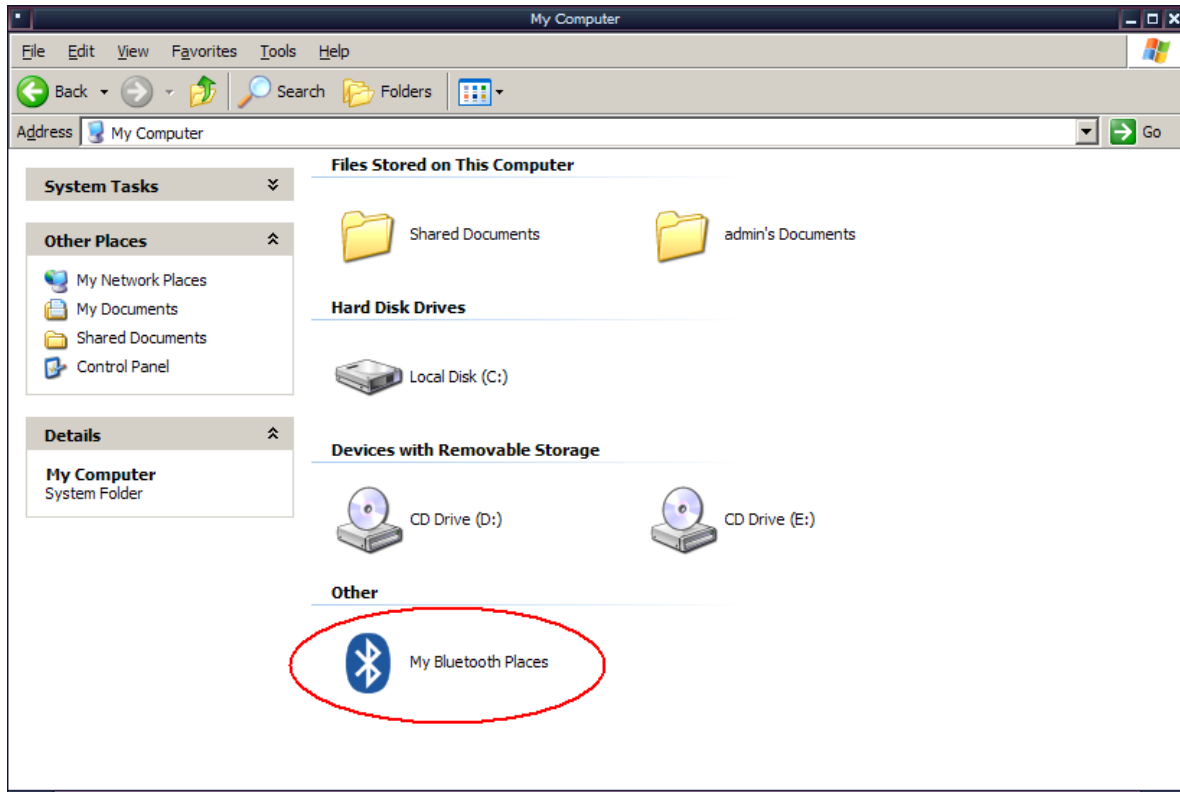
Website: <http://www.syris.com>

Specification

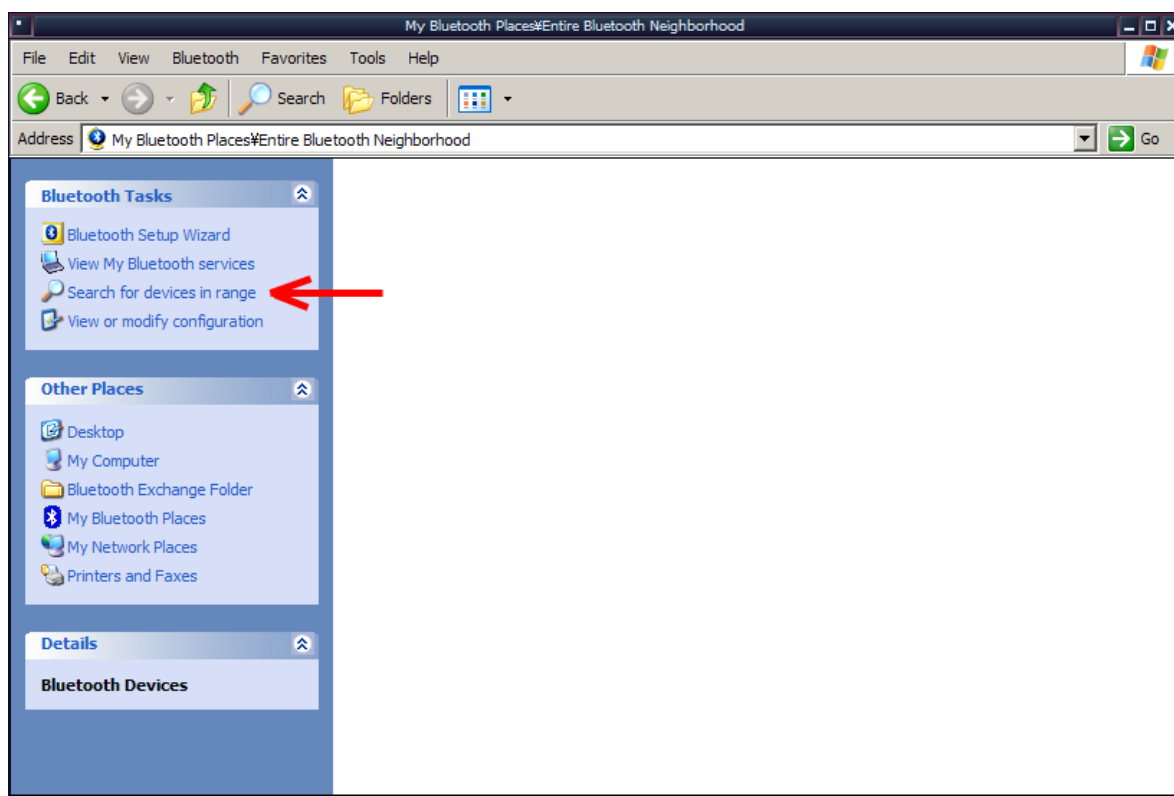
Model	SYRDBT-M1	SYRDBT-IC	SYRDBT-U1
Frequency	13.56 MHz	13.56 MHz	860~960MHz
Interface	Bluetooth V3.0/ 4.0 compliant		
Bluetooth transmission range	up to 20m		
Built-in memory	16,000 records	10,000 records	2,000 records
Read range	up to 5 cm	up to 7 cm	up to 100 cm
Support protocol	Mifare (ISO14443-A)	ISO15693	EPC Class 1 Gen 2; ISO-18000-6C
Operating temperature	0°C to 55°C		
Storage temperature	-20°C to 60°C		
Battery	3.7V 1150mAH Rechargeable Lithium Battery		
Charge Power	Standard USB power - 5V 500mA		
Housing	Splash resistant case		
Dimensions	53 W x 112 H x 19.3 D (mm)		

SYRDBT Bluetooth connection (Windows OS)

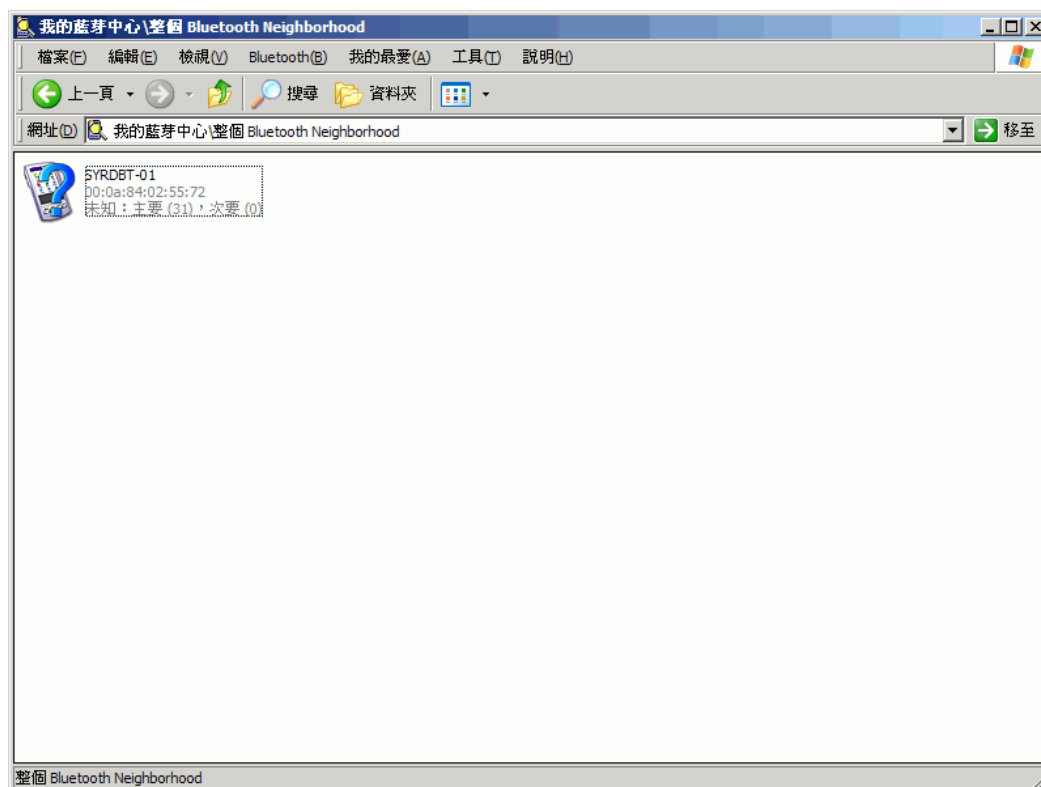
1. Enable your computer's Bluetooth function.
2. After you have successfully installed the Bluetooth software, you will see an icon on your desktop and an icon on Window System Tray. These are two shortcuts to My Bluetooth Places.
3. Double-click My Bluetooth Places.



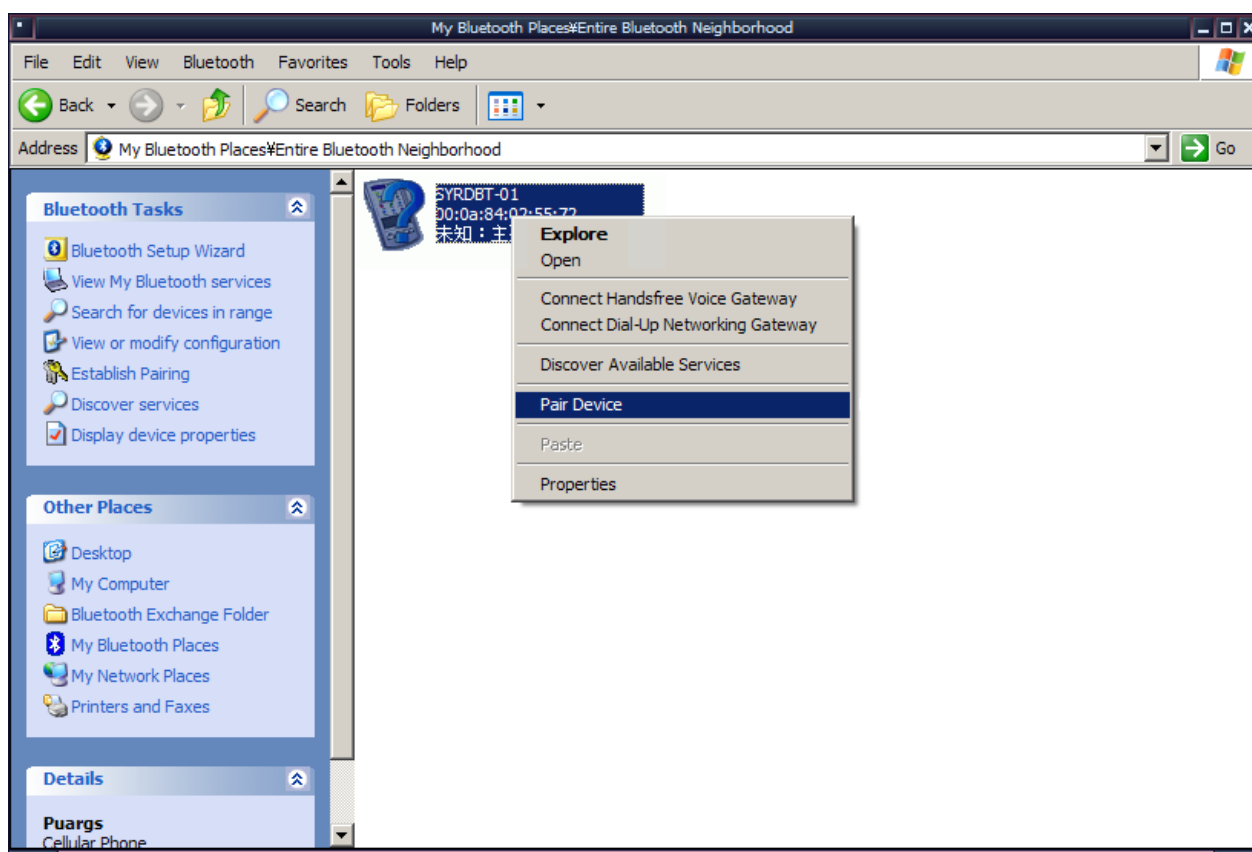
4. Search for Devices looks for Bluetooth devices in the vicinity and displays the devices that it finds in My Bluetooth Places.



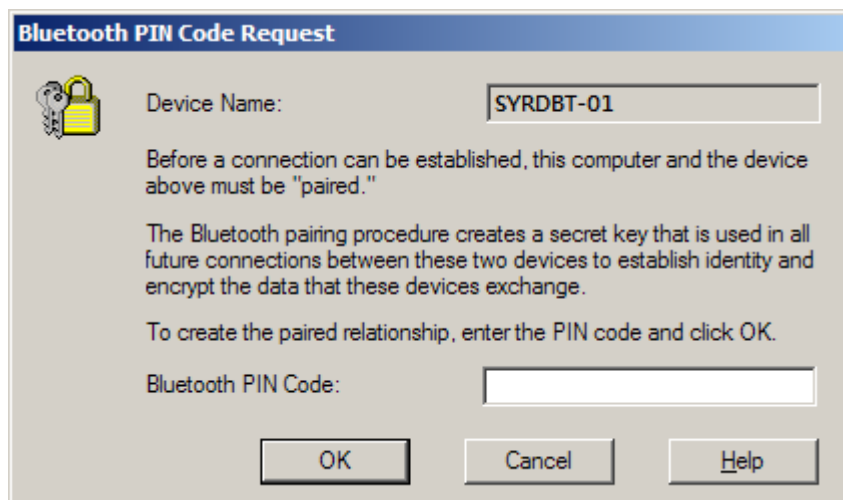
5. After discovering the devices you can have access to, you may perform Service Discovery. Each available device that you have discovered in the Bluetooth Neighborhood provides you with several services.



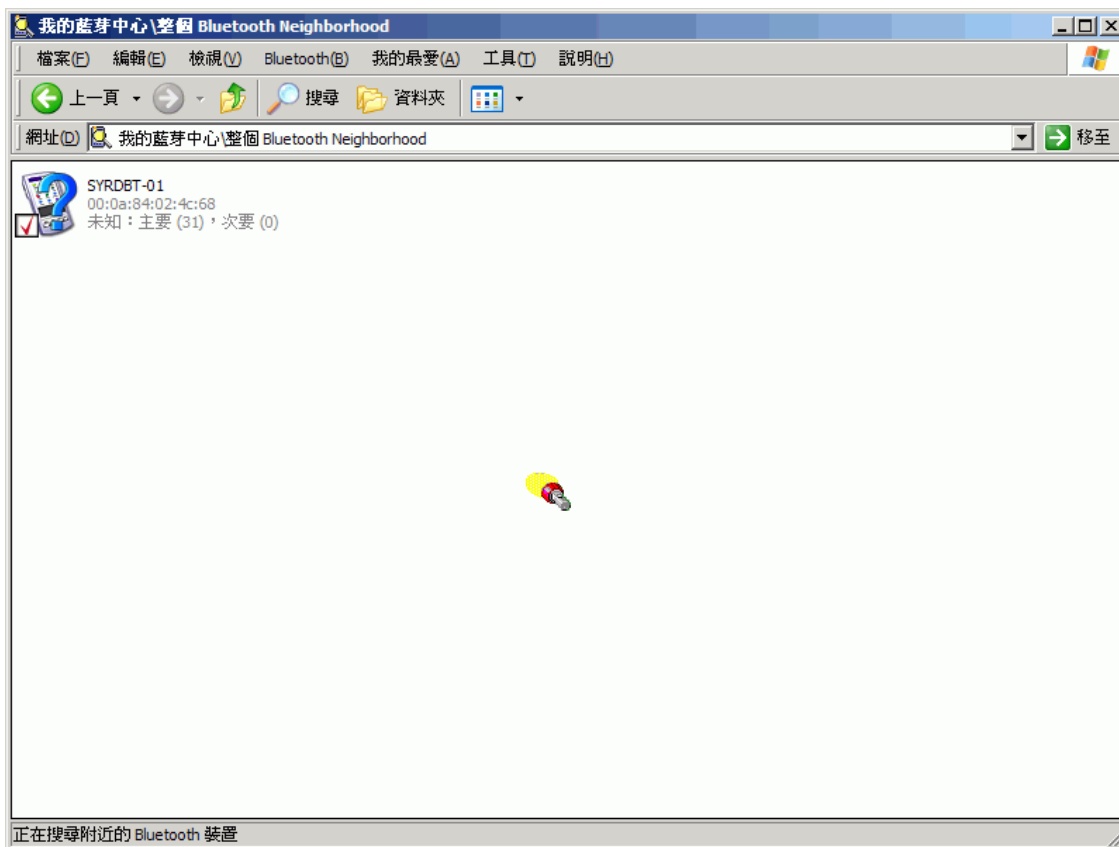
6. Pair with Bluetooth Device.



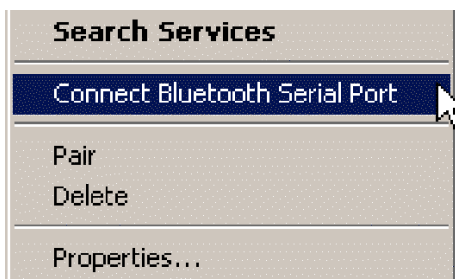
7. SYRDBT reader's Bluetooth pin code is "8888".



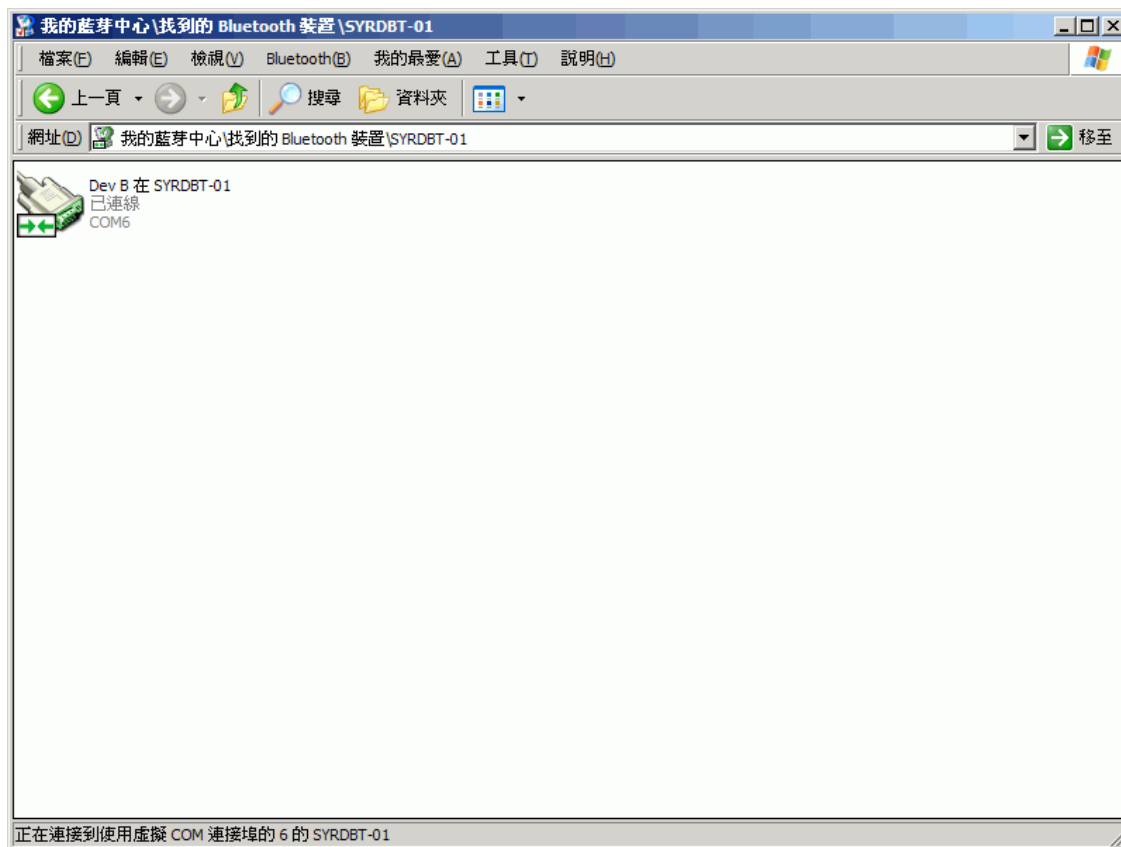
8. Computer and SYRDBT are now paired and able to exchange data.



9. Right-click and select Bluetooth serial port services.

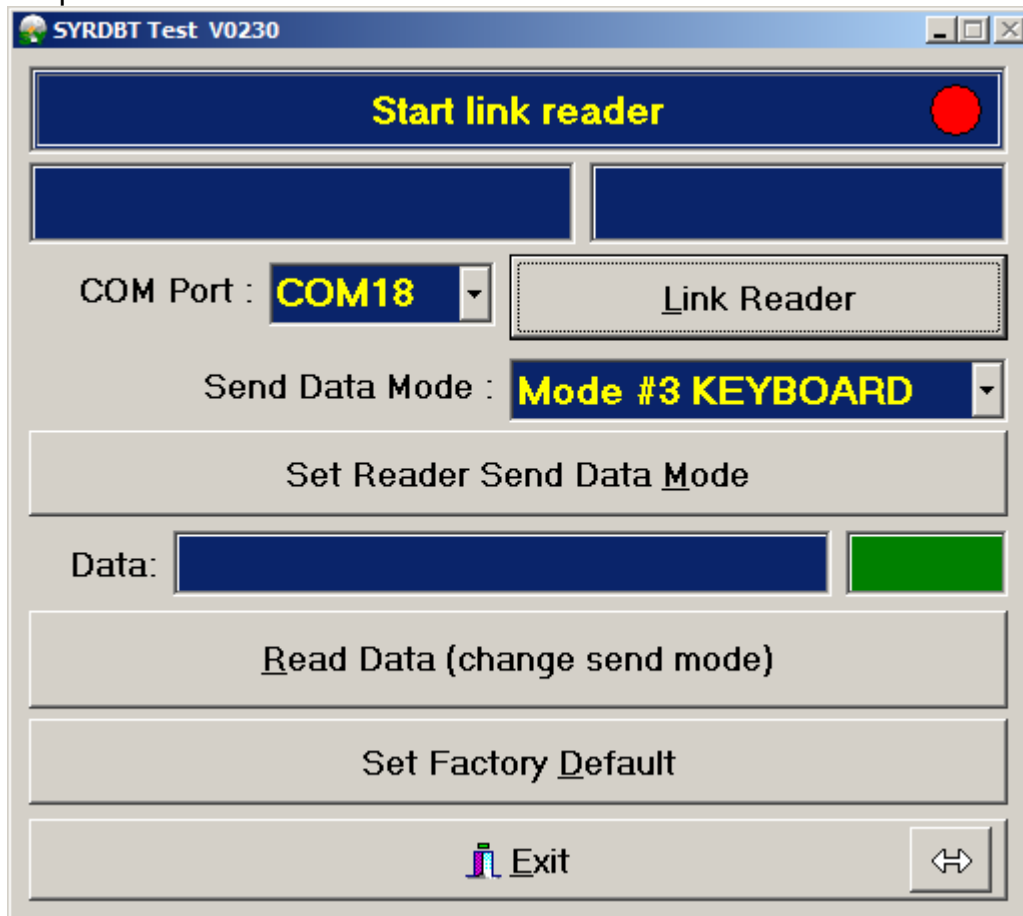


- 10.** Bluetooth Serial Port establishes a wireless connection between two Bluetooth devices. The serial connection can be used by applications as though there is a serial cable between the devices.

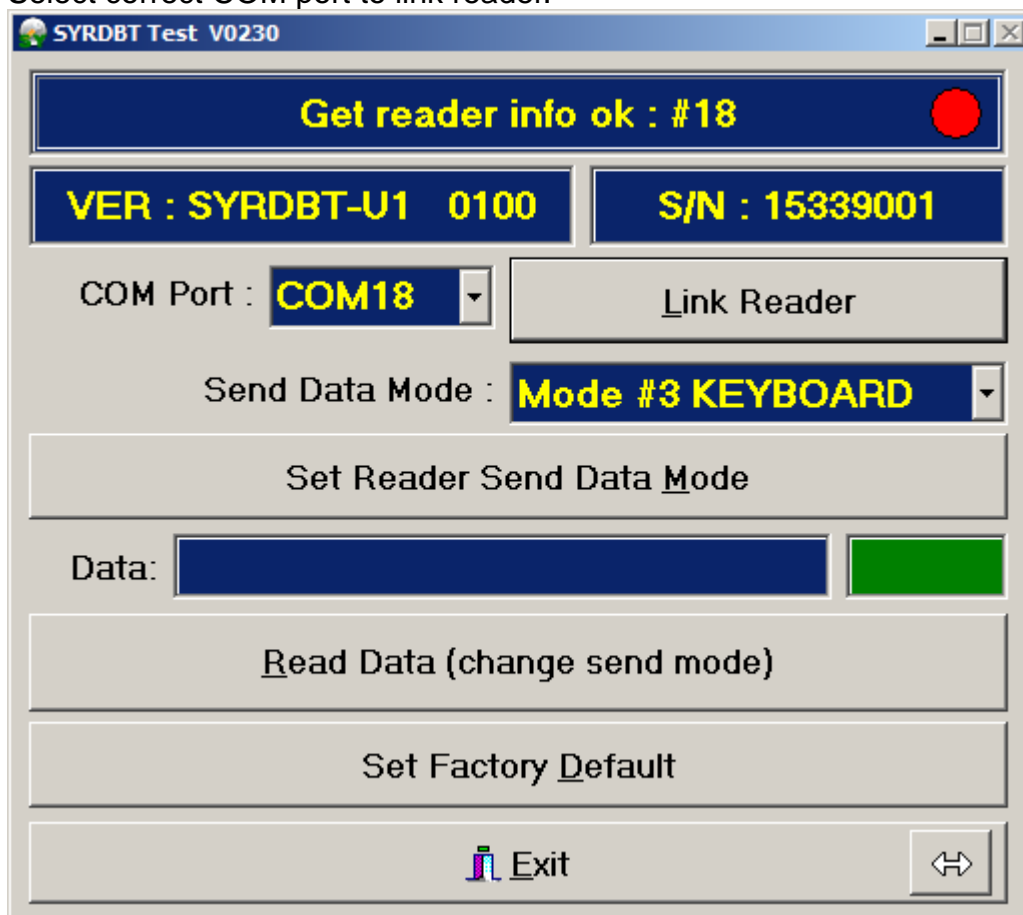


SYRDBT test tools

1. When you finished COM port mapping, you can execute SYRDBT test tools to read tags and set parameters.



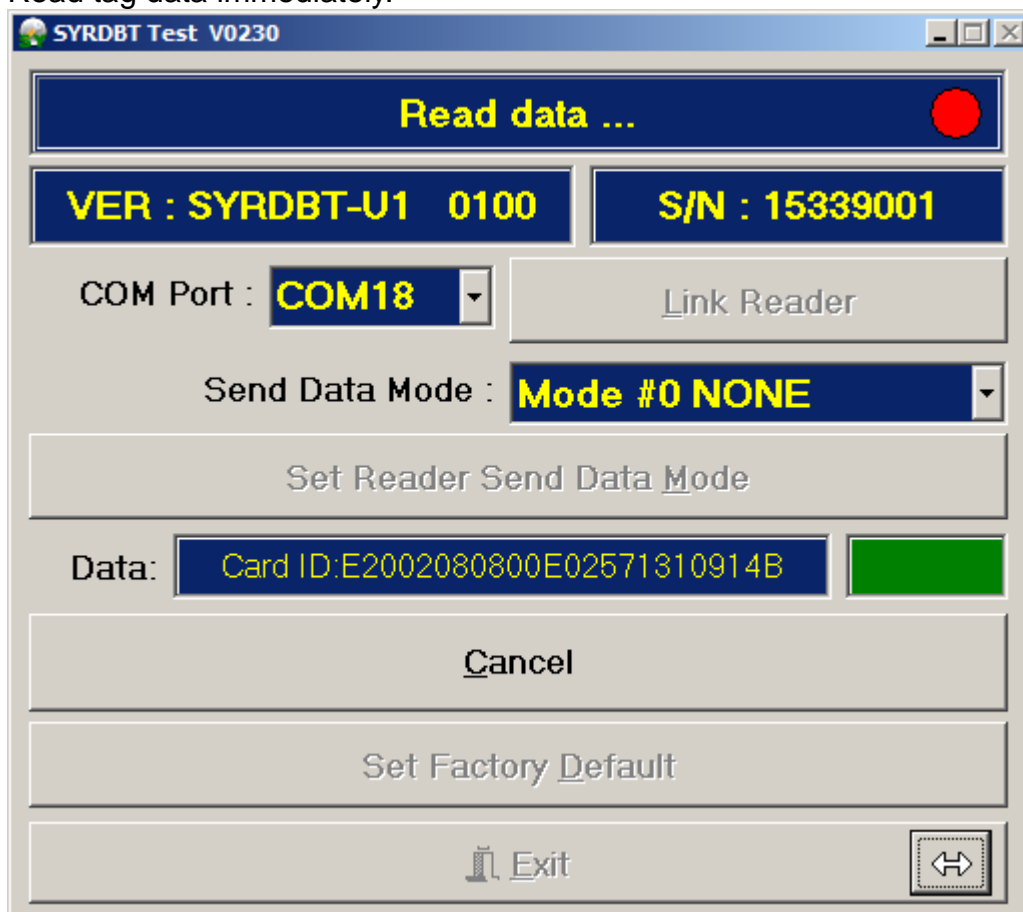
2. Select correct COM port to link reader.



The screenshot shows the 'SYRDBT Test V0230' window. At the top, a status bar indicates 'Get reader info ok : #18' with a red dot. Below this, two fields display 'VER : SYRDBT-U1 0100' and 'S/N : 15339001'. The 'COM Port' dropdown is set to 'COM18'. A 'Link Reader' button is present. The 'Send Data Mode' dropdown is set to 'Mode #3 KEYBOARD'. Below this is a 'Set Reader Send Data Mode' button. The 'Data' field is empty. At the bottom, there are buttons for 'Read Data (change send mode)', 'Set Factory Default', and 'Exit' with a right arrow icon.

Set Factory Default : Click to restore the factory default.

3. Read tag data immediately.



The screenshot shows the 'SYRDBT Test V0230' window. The status bar now indicates 'Read data ...' with a red dot. The 'VER' and 'S/N' fields remain the same. The 'COM Port' is still 'COM18'. The 'Link Reader' button is present. The 'Send Data Mode' dropdown is now set to 'Mode #0 NONE'. Below this is a 'Set Reader Send Data Mode' button. The 'Data' field now contains 'Card ID:E2002080800E02571310914B'. At the bottom, there are buttons for 'Cancel', 'Set Factory Default', and 'Exit' with a right arrow icon.

4. Power command

SYRDBT Test V0230

Cancel read data. [Yellow Circle]

VER : SYRDBT-U1 0100 S/N : 15339001

COM Port : COM18 Link Reader

Send Data Mode : Mode #3 KEYBOARD

Set Reader Send Data Mode

Data: Card ID:E2002080800E02571310914B

Read Data (change send mode)

Set Factory Default

Exit

Command

Power Message Log Command

Power Off Time : 180 Sec

Set Power Off Time

☐ Read Tag Auto Off

☐ Press Key Auto On/Off

Set Power Off Mode

☐ Send Battery Level

Set Battery Mode

Read Tag Delay : 0 x 10ms

Set Read Tag Delay

- a. Power off time : Default is 180 seconds, set to 0 is disable.
- b. Power off mode : Read tag auto off and press key auto off. Default is disable.
- c. Send battery level: Reader will send reader's battery voltage when tag data. Default is disable.
- d. Read tag delay : The intermission time of card reading.

5. Message command

SYRDBT Test V0230

Cancel read data. [Yellow Circle]

VER : SYRDBT-U1 0100 S/N : 15339001

COM Port : COM18 Link Reader

Send Data Mode : Mode #3 KEYBOARD

Set Reader Send Data Mode

Data: Card ID:E2002080800E02571310914B

Read Data (change send mode)

Set Factory Default

Exit

Command

Power Message Log Command

LED1 ON Time : 20 x10ms

LED2(BT) ON Time : 0 x10ms

Beep ON Time : 20 x10ms

Set Tag Message

LED1 ON Time : 10 x10ms

LED2(BT) ON Time : 0 x10ms

Beep ON Time : 10 x10ms

Set Key Message

Set tag message: Setup period of LED light and beep when read tag.

Set key message: Setup period of LED light and beep when press key button.

6. Log command

The screenshot shows the SYRDBT Test V0230 software interface. On the left, there's a status bar with "Read Log ok." and a yellow circle. Below it, two boxes show "VER : SYRDBT-U1 0100" and "S/N : 15339001". The "COM Port" is set to "COM18" and "Link Reader" is a button. "Send Data Mode" is set to "Mode #3 KEYBOARD". There are buttons for "Set Reader Send Data Mode", "Data:" (showing "Card ID:E2002080800E02571310914B"), "Read Data (change send mode)", "Set Factory Default", and "Exit". On the right, the "Command" section has tabs for "Power", "Message", "Log", and "Command". The "Log" tab is active, showing two date/time fields: "2015/11/17 11:19:5" and "2014/01/19 00:50:5". Below these are "Set Time" and "Get Time" buttons. A "Send Data" field contains "X000001". An "Echo Data" field shows a long hexadecimal string: "001169000001201401010244220000000". At the bottom of the Command section are "Read Log" and "Del All Log" buttons.

Set time: Synchronize reader's clock to computer's time.

Get time: Get reader's current time.

Read log : Input log command to read reader's log.

ex. X000001 means read log No.1, X000153 means read log No.153.

Del all log: Clear all log data in reader.

7. Command test:

Enter the test command to the field of Send Data then click Test Command to test.

The screenshot shows the SYRDBT Test V0230 software interface, similar to the previous one. The "Command" section on the right now has the "Command" tab active. The "Send Data" field contains "B1". Below it, the "Echo Data" field is empty. A large "Test Command" button is visible. The left side of the interface remains the same as in the previous screenshot.

8. BT-U1 command **(Only for SYRDBT-U1)**

The screenshot shows the SYRDBT Test V0230 software interface. The main window has a title bar 'SYRDBT Test V0230'. On the left, there's a status area with 'Read Log ok.' and a yellow circle. Below it, 'VER : SYRDBT-U1 0100' and 'S/N : 15339001'. The 'COM Port' is set to 'COM18'. There's a 'Link Reader' button. The 'Send Data Mode' is set to 'Mode #3 KEYBOARD'. Below that is a 'Set Reader Send Data Mode' button. The 'Data' field shows 'Card ID:E2002080800E02571310914B'. There are buttons for 'Read Data (change send mode)' and 'Set Factory Default'. At the bottom left is an 'Exit' button. On the right, the 'Command' tab is selected, showing 'BT-U1'. It has fields for 'PIN : 8888' with a 'Set BT PIN' button, 'NAME : SYRDBT' with a 'Set BT NAME' button, 'Reader power' set to '25' with a 'Set Reader Power' button, and 'Frequency Range' set to '05: EU 865~868' with a 'Set Frequency Range' button.

Set BT PIN : Setup reader's Bluetooth pin code.

Set BT NAME: Setup reader's Bluetooth device name.

Read power: Adjust reader's UHF RFID power.

25 dbm is the max range (default setting), -2 is the shortest read range.

Frequency Range: Adjust reader's UHF RFID frequency range for different country.

9. BT-M1 command **(Only for SYRDBT-M1)**

The screenshot shows the SYRDBT Test V0230 software interface for the BT-M1 command. The main window has a title bar 'SYRDBT Test V0230'. On the left, there's a status area with 'Read Log ok.' and a yellow circle. Below it, 'VER : SYRDBT-U1 0100' and 'S/N : 15339001'. The 'COM Port' is set to 'COM18'. There's a 'Link Reader' button. The 'Send Data Mode' is set to 'Mode #3 KEYBOARD'. Below that is a 'Set Reader Send Data Mode' button. The 'Data' field shows 'Card ID:E2002080800E02571310914B'. There are buttons for 'Read Data (change send mode)' and 'Set Factory Default'. At the bottom left is an 'Exit' button. On the right, the 'Command' tab is selected, showing 'BT-M1'. It has radio buttons for 'Disable' (selected), 'Key A', and 'Key B'. Below them are fields for 'Block No : 4', 'Read Byte : 4', and 'Read Start : 12'. There's a 'Key : FFFFFFFFFF' field. There are buttons for 'Set Read Block' and 'Get'. At the bottom, there's a 'Reverse ID' checkbox and a 'Set Reverse ID' button.

Setup reader to read mifare specific block. Default is disable.

10. BT-IC command **(Only for SYRDBT-IC)**

SYRDBT Test V0230

Read Log ok.

VER : SYRDBT-U1 0100 S/N : 15339001

COM Port : COM18 Link Reader

Send Data Mode : Mode #3 KEYBOARD

Set Reader Send Data Mode

Data: Card ID:E2002080800E02571310914B

Read Data (change send mode)

Set Factory Default

Exit

Command

Command BT-U1 BT-M1 BT-IC

☐ Use Mutli Block Read Command

Set Mutli Block Mode

Set Multi Block mode: Enable to support I-code multi block read command.