SYRDBT-XE

SYRIS Handy Wireless Excite Reader

V0104





SYRIS Technology Corp.

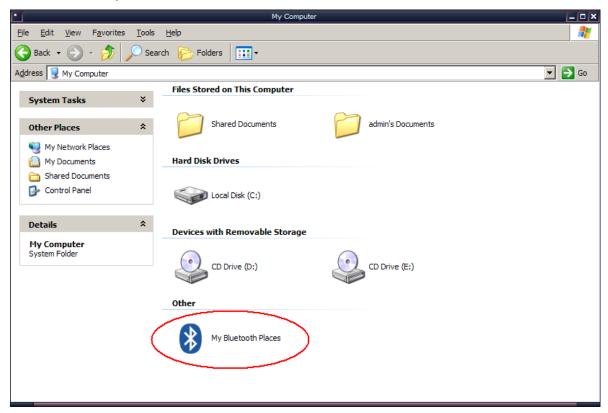
Address: 12F., No.16, Sec. 2, Taiwan Blvd., West Dist.,

Taichung City 403, Taiwan

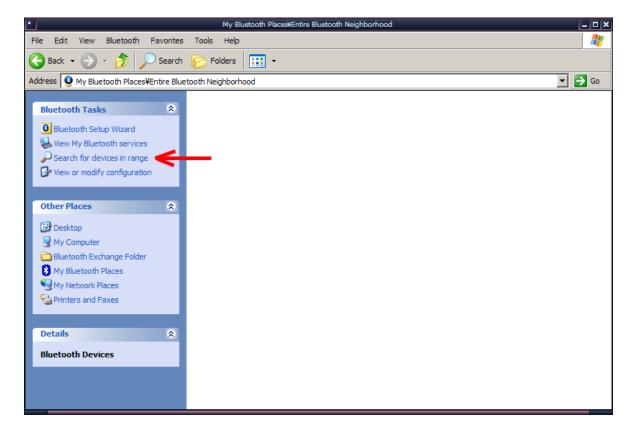
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SYRDBT Bluetooth connection

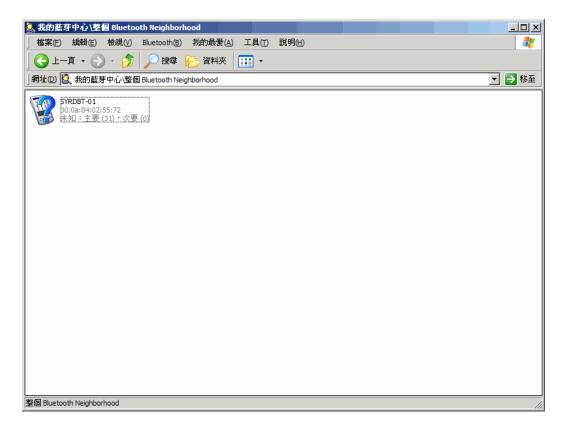
- **1.** Enable your computer's Bluetooth function.
- **2.** After you have successfully installed the Bluetooth software, you will see an icon on your desktop and an icon on Window System Tray. These are two shortcuts to My Bluetooth Places.
- 3. Double-click My Bluetooth Places.



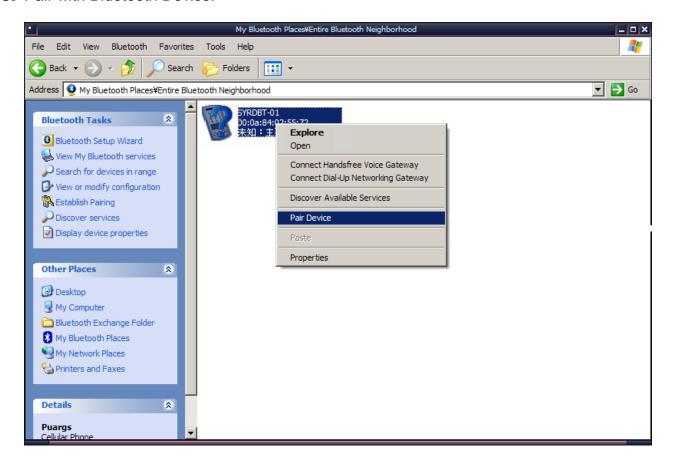
4. Search for Devices looks for Bluetooth devices in the vicinity and displays the devices that it finds in My Bluetooth Places.



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.



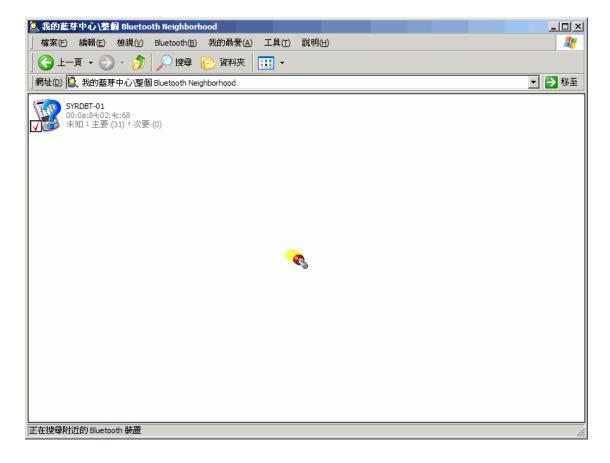
6. Pair with Bluetooth Device.



7. SYRDBT default passkey is "8888".



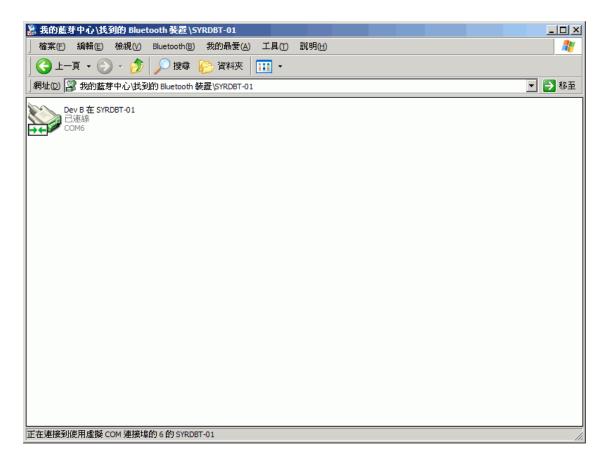
8. Computer and SYRDBT are now paired and able to exchange data.



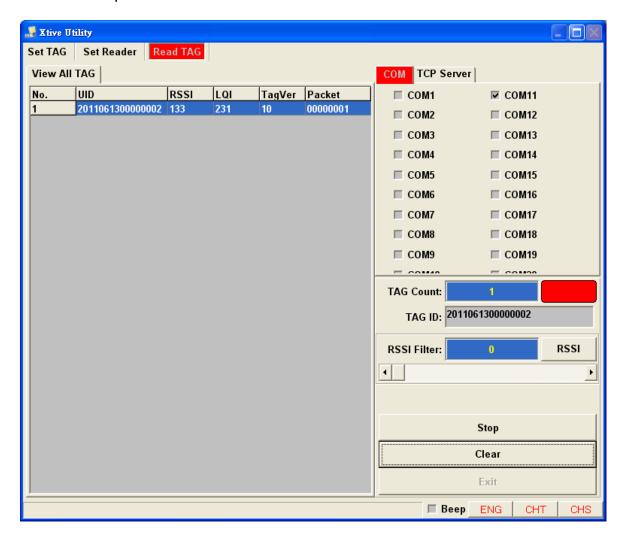
9. Right-click and select Bluetooth serial port services.



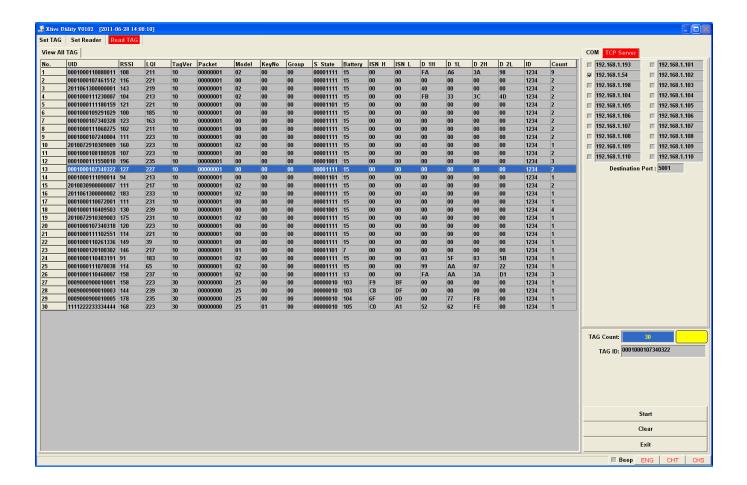
10. Bluetooth Serial Port establishes a wireless connection between two Bluetooth devices. The serial connection can be used by applications as though there is a serial cable between the devices.



11. When you finished COM Mapping, you can execute SYRIS Xtive Utility program to read TAG and set parameters.



Starting read TAG will receive Tag information from reader.



Field Introduction:

UID: Tag's identification number.

RSSI: Received Signal Strength Indication (0-255). Reading range and RSSI are inverse proportion.

LQI: Link quality indicator. (0-255)

TagVer: Tag's data format version. (10 is V1, 20 is V2, 30 is V3)

Packet: Tag's data information.(V3 only)

Bit 1 - AES (1 = AES on / 0 = AES off)

Bit 0 - C/UID(0 = CID / 1 = UID) \circ

Model: Tag's model type.

Key NO:If AES is on, this column will show AES key depart number. (V3 only)

Group: Tag's group number. (V3 only)

Battery: Tag's battery status (V1: battery level 0~15, V3: Voltage is "Battery: x 0.0293)

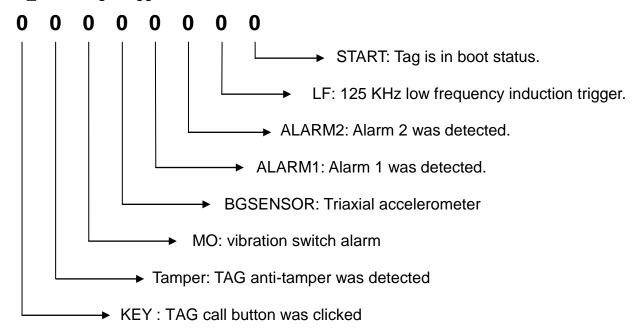
ISN: Tag's packet serial number. (V3 only)

D1, D2: Tag's data (ex. Temperature sensor, humidity sensor.)

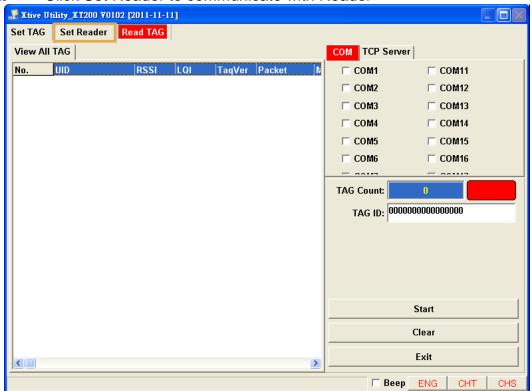
Tag's exciter's ID will show on "D_2H" field.

ID: Reader's device ID.

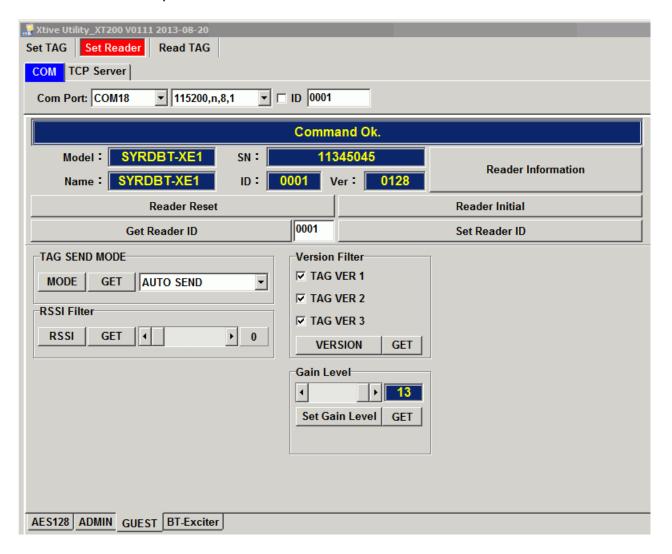
S_State: Tag's trigger status.



12. Click Set Reader to communicate with Reader



Select correct COM port and click "Reader Information" to communicate with Reader.



Reader information: Get reader's information

Reader Reset: Reset online reader. Reader will warm restart.

Reader Initial: Initial online reader. All setting will set to factory default.

Get Reader ID: Get the ID of the reader.

Set Reader ID: Input the number to ID field and then click "Set Reader ID" to change

Reader's ID.

TAG SEND MODE: Set reader's auto send mode when receive tag.

STOP SEND - Stop to receive tag.

AUTO SEND - Receive tag's data automatically.

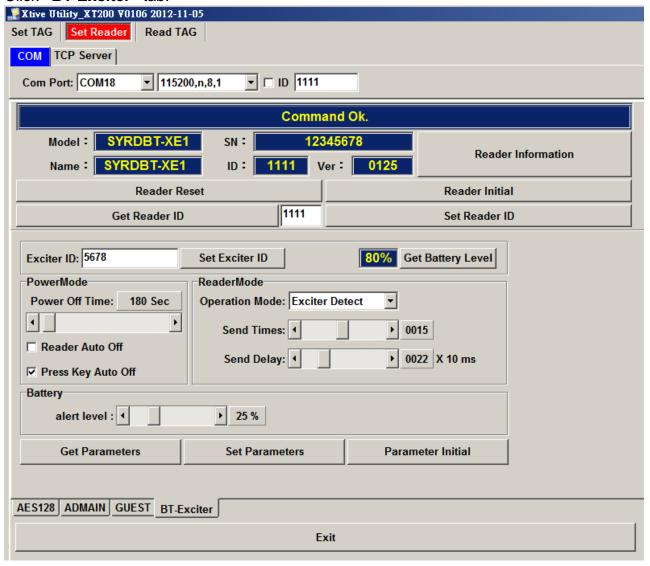
RSSI Filter: Adjust RSSI level (0~250) to filter TAG which have low RSSI signal in reader.

Version Filter: Filter the version of tag.

Gain Level: Adjust Gain level (1~13) to control reader's read range.

Level 13 is the max range (default setting), Level 1 is the shortest read range.

Click "BT-Exciter" tab.



Exciter ID : Set up the device's exciter ID.

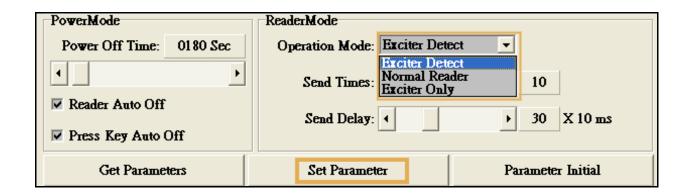
Power Mode:

Power off time: Set auto turn off device. (Default is 180 sec)

Reader Auto Off: Enable auto turn off function.

Press Key Auto Off: Enable this function means you can turn off device with call button.

13. Set up correct parameters and click "**Set Parameter**" to change mode of device.



Normal reader:

The devices always enable 2.45 GHz xtive reader function. 125 KHz exciter function was enabled with call button.

Exciter detect:

The device enables 125 KHz exciter and 2.45GHz xtive reader function. In this mode, SYRDBT-XE will receive the tag which detected this device's exciter ID.

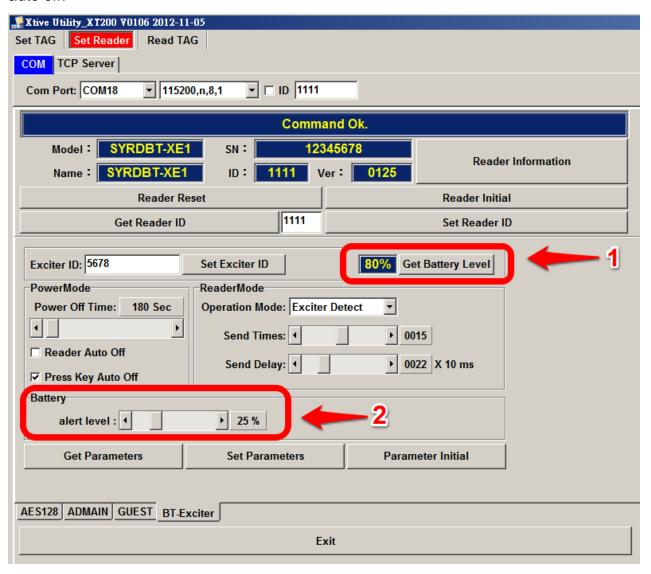
Exciter only:

The devices only enable 125 KHz exciter function.

Send Times: Set 125 KHz exciter trigger times when call button was clicked.

Send Delay: Set interval of 125 KHz exciter trigger.

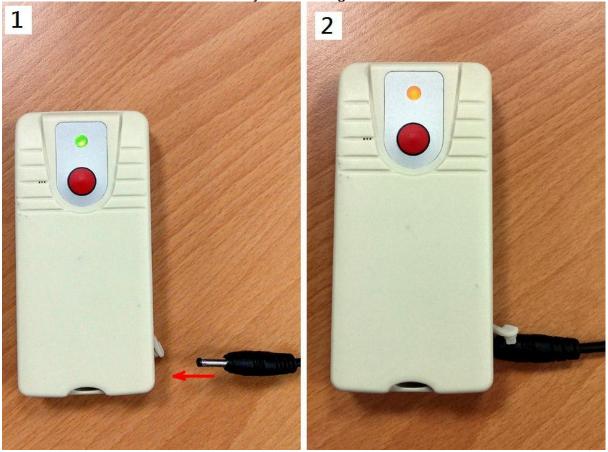
14. Set alert level : When the reader's battery capacity level less than alert level, the reader will auto off.



Click "Get battery level" to check current battery capacity level.

- **15.** Charge SYRDBT-XE with 5V USB cable.
 - A. Plug into charge cable will trigger 2 beep sound that means bluetooth reader reboot and turn off succeeded.
 - B. SYRDBT-XE will change LED status to orange when charging.

C. LED status will auto off when battery is full charged.



Note. Sometimes you will get long beep sound that means reader reboot fail. You need re-plug charge cable.