

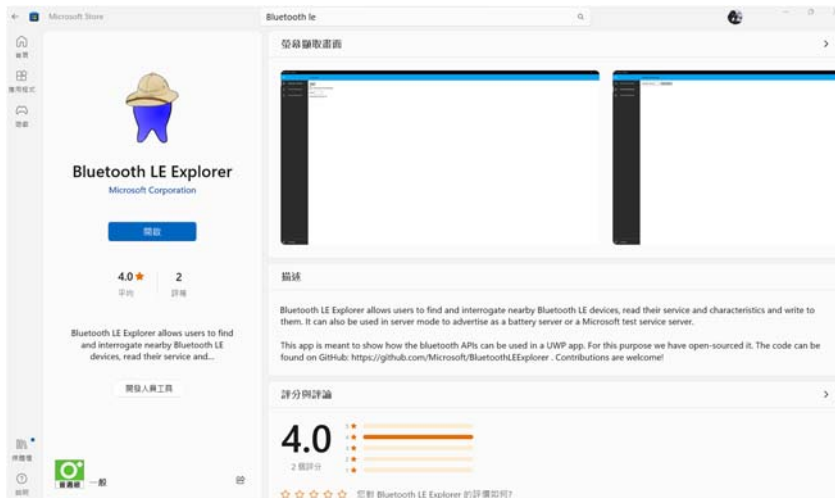
S2B5232E Windows test procedure

1. Test setup

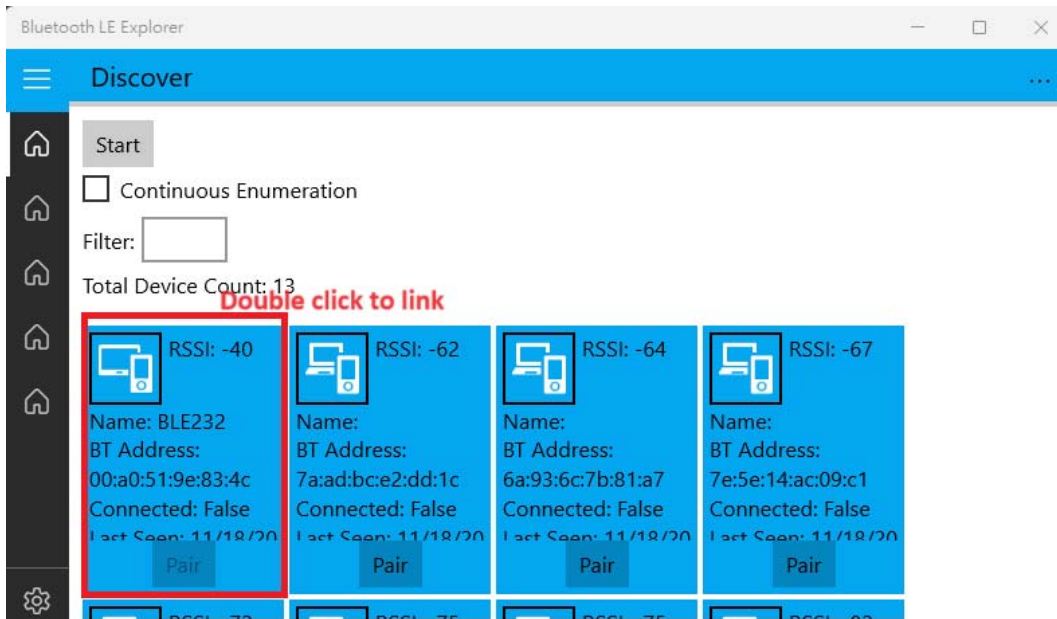


2. Win 11 APP: Download the APP “Bluetooth LE Explore” from the store.

<https://www.microsoft.com/store/productId/9N0ZTKF1QD98?ocid=pdpshare>



3. Execute the APP and scan the BLE device. Select the “BLE232”



4. Select the GATT service for bi-directional data transmission, see user manual for details.

5.4 UUID_BLE_SERV = ("0003ABCD-0000-1000-8000-00805F9B0131") (Self defined UUID)

- UUID_BLE5DATA = ("00031201-0000-1000-8000-00805f9b0130"), Data from BLE232_TxData (Notification)
- UUID_BLE5SENT = ("00031202-0000-1000-8000-00805f9b0130"), //Data to BLE232_RxData max244bytes/package(write only)

Bluetooth LE Explorer

Device Services Page

BT Address: 00:a0:51:9e:83:4c
 Number of Services: 4
 Number of service changed events: 0
 Number of Advertisement Services: 1
 BT 4.2 Secure Connection: False

Device Connected: True

Refresh

Commit Transaction

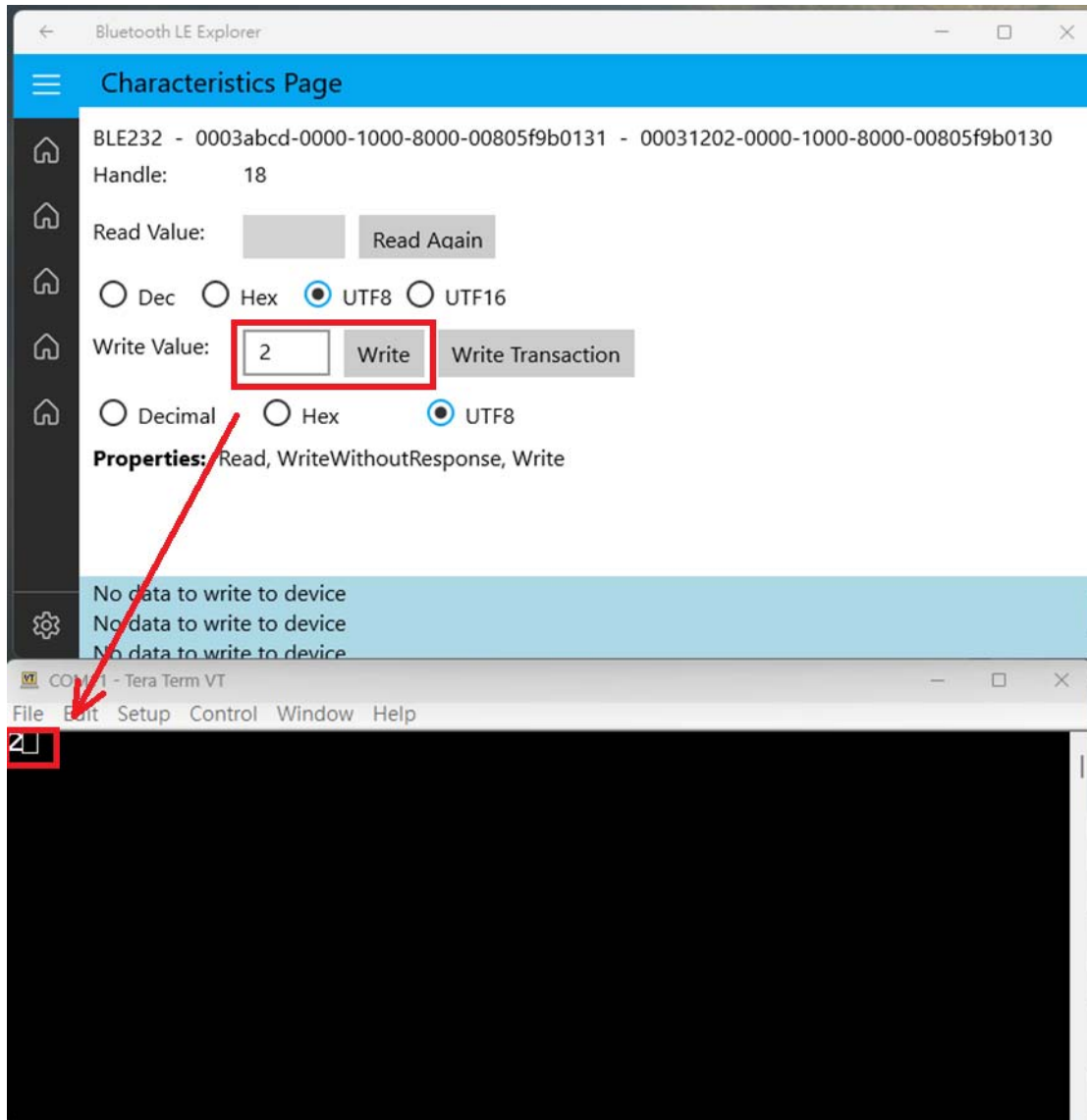
Service Name: **GenericAccess**
 Service UUID: **00001800-0000-1000-8000-00805f9b34fb**
 Characteristic Name: **DeviceName** - Characteristic Short UUID: **0x2A00** - User Description: - Handle: **2** - **0x00000002** - Value: **BLE232**
 Characteristic Name: **Appearance** - Characteristic Short UUID: **0x2A01** - User Description: - Handle: **4** - **0x00000004** - Value: **00-00**
 Characteristic Name: **PeripheralPreferredConnectionParameters** - Characteristic Short UUID: **0x2A04** - User Description: - Handle: **6** - **0x00000006** - Value: **0C-00-18-00-00-00-90-01**
 Characteristic Name: **CentralAddressResolution** - Characteristic Short UUID: **0x2AA6** - User Description: - Handle: **8** - **0x00000008** - Value: **01**

Service Name: **GenericAttribute**
 Service UUID: **00001801-0000-1000-8000-00805f9b34fb**
 Characteristic Name: **ServiceChanged** - Characteristic Short UUID: **0x2A05** - User Description: - Handle: **11** - **0x0000000B** - Value: **Read Not Permitted**

Service Name: **0003abcd-0000-1000-8000-00805f9b0131** **Double click to choose the service**
 Service UUID: **0003abcd-0000-1000-8000-00805f9b0131**
 Characteristic Name: **00031201-0000-1000-8000-00805f9b0130** - Characteristic Short UUID: - User Description: - Handle: **15** - **0x0000000F** - Value: **67**
 Characteristic Name: **00031202-0000-1000-8000-00805f9b0130** - Characteristic Short UUID: - User Description: - Handle: **18** - **0x00000012** - Value: **NULL**
 Characteristic Name: **00031203-0000-1000-8000-00805f9b0130** - Characteristic Short UUID: - User Description: - Handle: **20** - **0x00000014** - Value: **AA-03-00-00**
 Characteristic Name: **00031204-0000-1000-8000-00805f9b0130** - Characteristic Short UUID: - User Description: - Handle: **22** - **0x00000016** - Value:
 Characteristic Name: **00031205-0000-1000-8000-00805f9b0130** - Characteristic Short UUID: - User Description: - Handle: **24** - **0x00000018** - Value: **BLE232**
 Characteristic Name: **00031206-0000-1000-8000-00805f9b0130** - Characteristic Short UUID: - User Description: - Handle: **26** - **0x0000001A** - Value: **000000**
 Characteristic Name: **00031210-0000-1000-8000-00805f9b0130** - Characteristic Short UUID: - User

5. Transmit the data from APP (Win11 BLE) to Teraterm (USB RS-232)

6.



7. Transmit the data from APP (Win11 BLE) to Teraterm (USB RS-232)

The screenshot shows the Bluetooth LE Explorer application window. The main area displays the 'Characteristics Page' for a device with address BLE232 - 0003abcd-0000-1000-8000-00805f9b0131. The selected characteristic is 'ClientCharacteristicConfiguration' with handle 17 and value 01-00. The 'Read Value' field is set to 'Y' and is highlighted with a red box. Below it, radio buttons for 'Decimal', 'Hex', 'UTF8', and 'UTF16' are visible, with 'UTF8' selected. A red arrow points from the 'Read Value' field to the 'COM11 - Tera Term VT' terminal window. The terminal window has a menu bar with 'File', 'Edit', 'Setup', 'Control', 'Window', and 'Help'. A red box highlights the terminal's input area. Below the terminal window, red text reads: 'Type the data from RS-232 connector via the terminal software here, the data will be transmitted to Win11 APP.'