


Quectel Forums FC41D Configured Peripheral Device User Guide

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Prerequisites

Shared via email firmware to be flashed in device [FC41D].
Shared via email “ COM” tool



Third party Bluetooth application installed on mobile phone, to connect with FC41D.

Setup Instructions

Steps:

Connect FC41D module with PC via main_Uart port.

Open the port in QComm tool.

Check the version on FC41D device3

```
[2023-04-10_14:46:22:372]AT+QVERSION
```

```
[2023-04-10_14:46:22:372]+QVERSION:FC41DAAR02A02_202304071551
```

```
[2023-04-10_14:46:22:372]OK
```

Configure FC41D device as peripheral device and advertise:

```
[2023-04-10_14:46:40:182]AT+QBLEINIT=2
[2023-04-10_14:46:40:182]OK
[2023-04-10_14:46:42:241]AT+QBLEADVPARAM=150, 150
[2023-04-10_14:46:42:241]OK
[2023-04-10_14:46:43:466]AT+QBLEGATTSSRV=fff1
[2023-04-10_14:46:43:466]OK
[2023-04-10_14:46:44:083]AT+QBLEGATTSCCHAR=fff2
[2023-04-10_14:46:44:083]OK
[2023-04-10_14:46:44:856]AT+QBLEGATTSCCHAR=fff3
[2023-04-10_14:46:44:856]OK
[2023-04-10_14:46:47:600]AT+QBLEADVSTART
[2023-04-10_14:46:48:080]OK
```

Using the third-party Bluetooth application on mobile device, search and connect to the configured peripheral device on FC41D.

```
[2023-04-10_14:46:48:080]OK
[2023-04-10_14:55:22:029]+QBLESTAT:CONNECTED
```

Set the MTU mode to maximum number of bytes i.e 512 bytes

```
[2023-04-10_15:48:56:281]AT+QBLECFGMTU=512
[2023-04-10_15:48:56:281]OK
[2023-04-10_15:48:56:343]+QBLEMTU: <512>
```

Run the command "AT+QBLETRANMODE" on FC41D module

```
[2023-04-10_14:58:40:755]AT+QBLETRANMODE=fff2  
[2023-04-10_14:58:40:755]OK
```

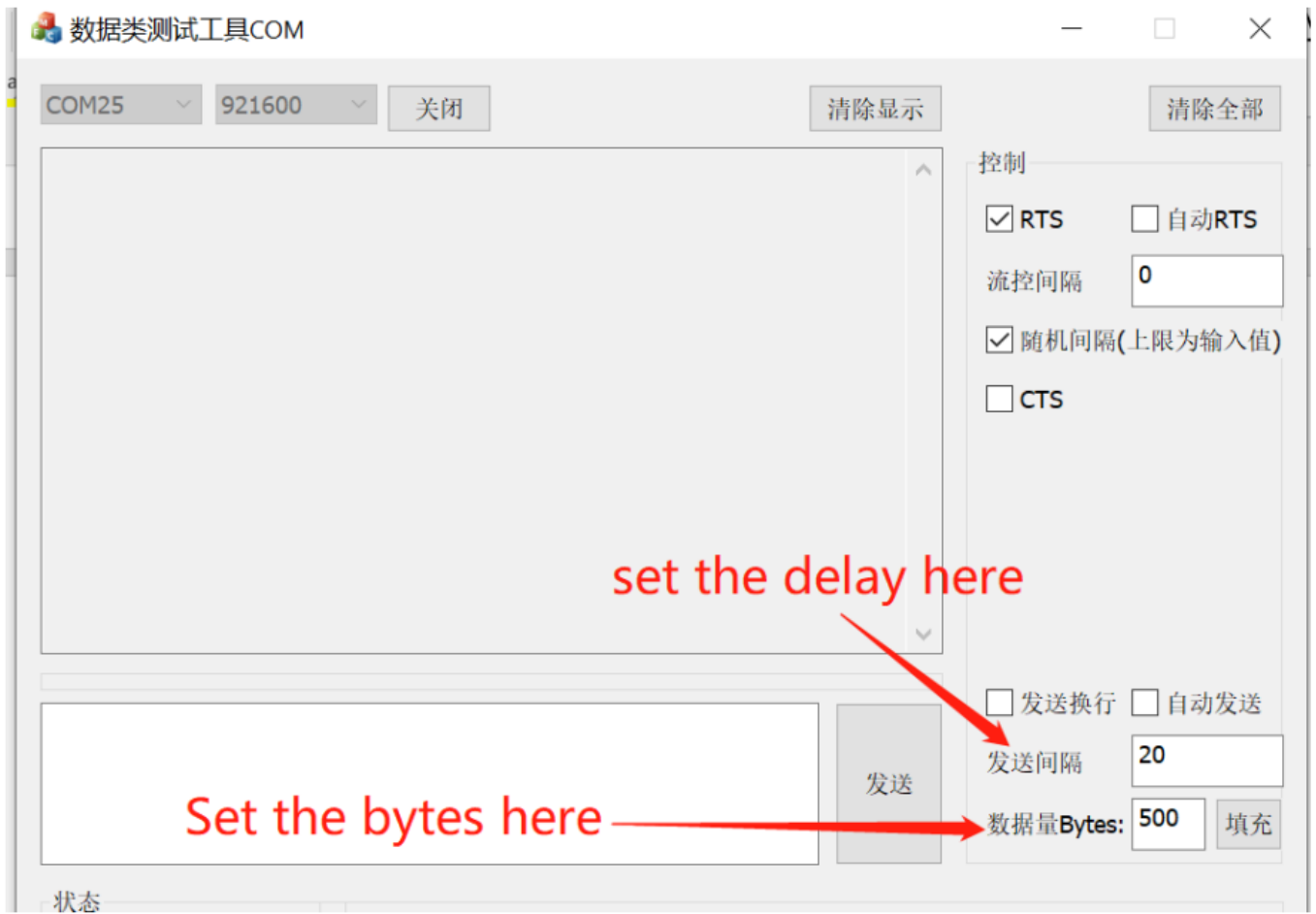
Now, Open the tool COM on PC , the interface will be shown as below:



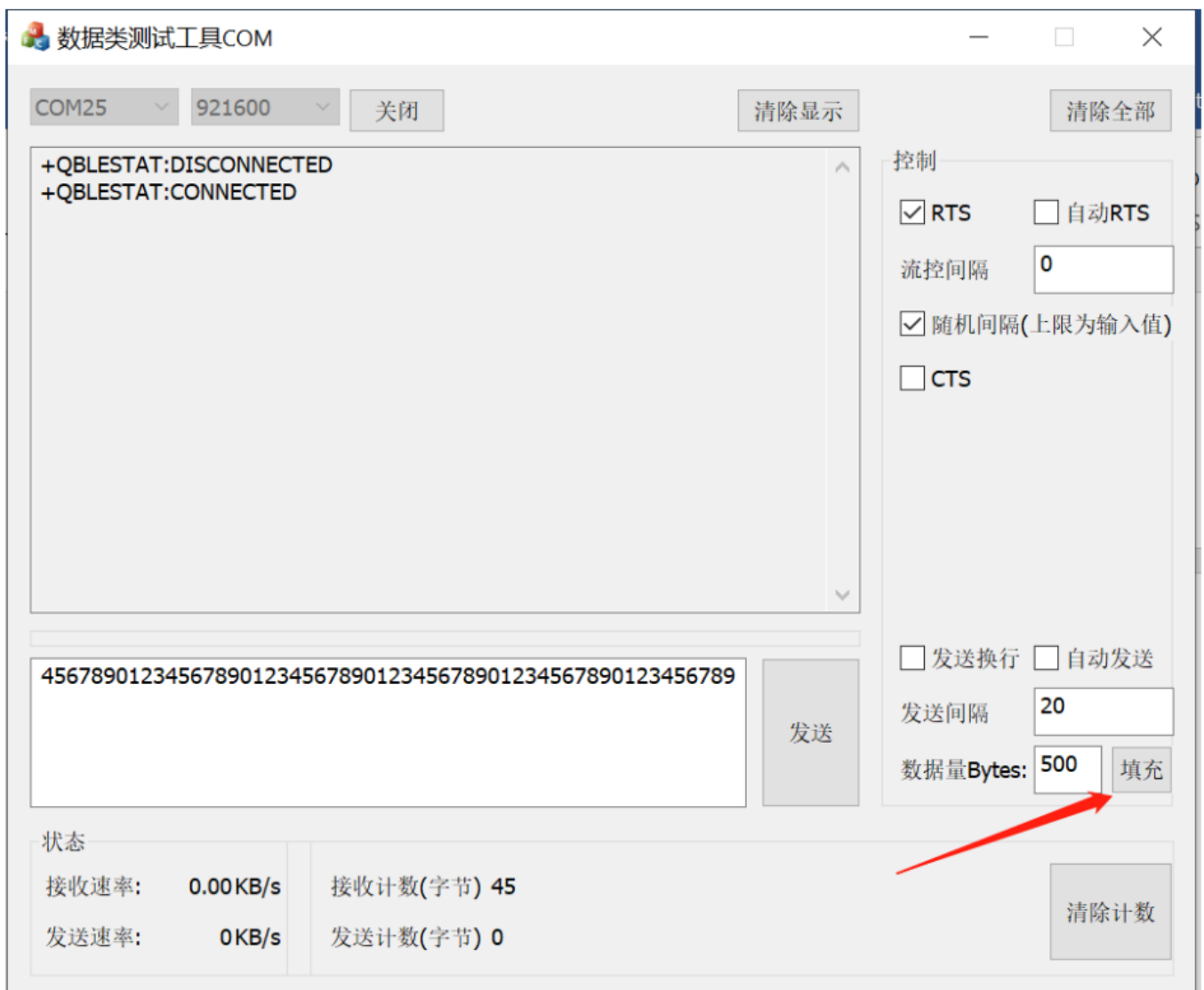
Disconnect the module port from Qcomm tool and connect with COM tool



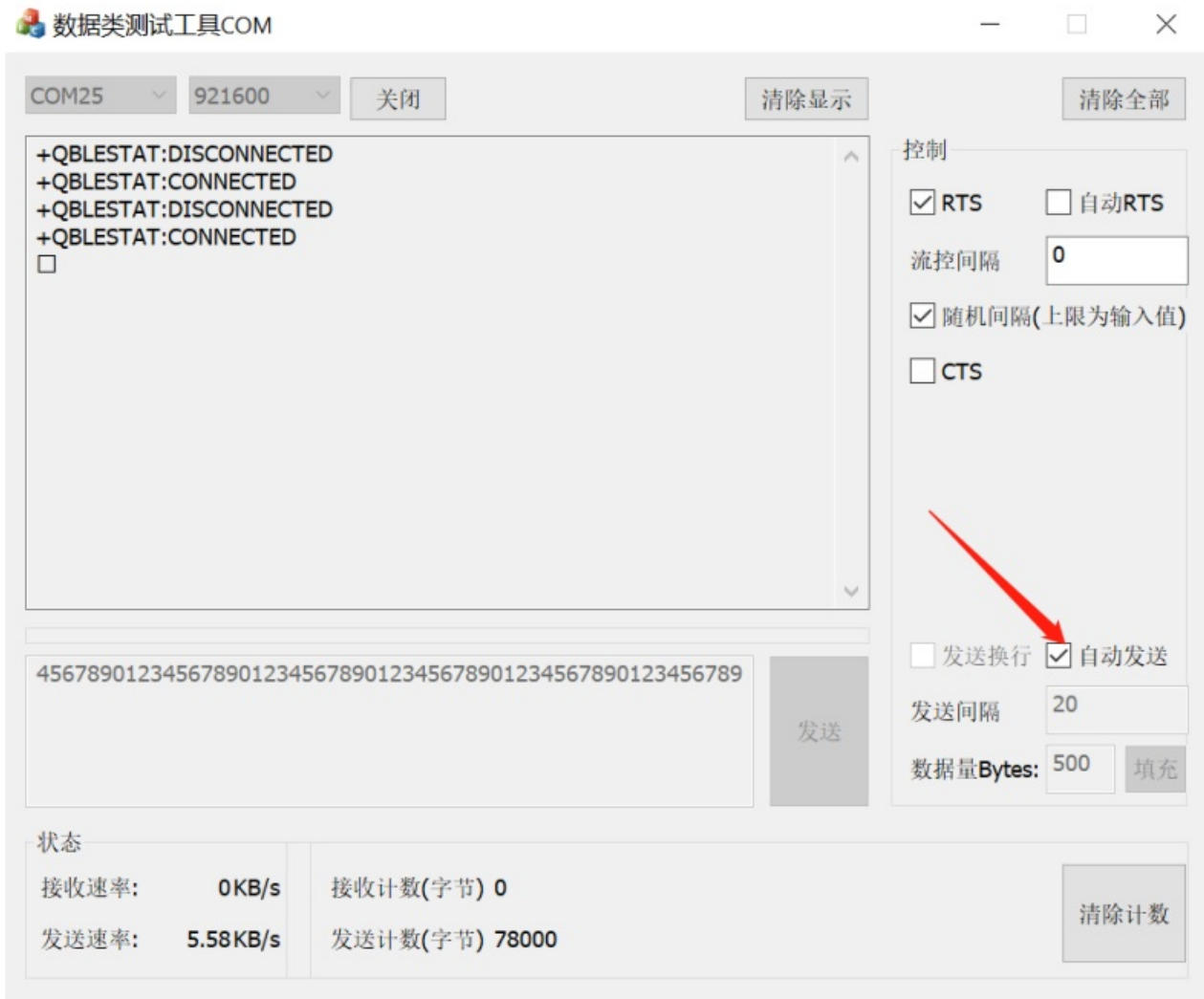
After opening the port, set delay time and data bytes to be sent



Click on mentioned option, it will fill the random data automatically equivalent to set number of bytes.



For continuous data sending, check the option mentioned below:



After sending data for some interval, stop sending data by unchecking the auto data sending box.

After stopping the data transfer, we can check the speed and total number of bytes transferred.

数据类测试工具COM

COM25

921600

关闭

清除显示

清除全部

+QBLESTAT:DISCONNECTED
+QBLESTAT:CONNECTED
+QBLESTAT:DISCONNECTED
+QBLESTAT:CONNECTED
☐

控制
☒ RTS ☐ 自动RTS
流控间隔
☒ 随机间隔(上限为输入值)
☐ CTS

45678901234567890123456789012345678901234567890123456789

发送

☐ 发送换行 ☐ 自动发送
发送间隔
数据量Bytes:


填充

状态

接收速率:	0KB/s	接收计数(字节) 0
发送速率:	16.59KB/s	发送计数(字节) 14000

清除计数

Transferred data can be compared on mobile device if all the transferred data has been received on other end or not.

	<p>Quetcetel Forums FC41D Configured Peripheral Device [pdf] User Guide</p> <p>FC41D Configured Peripheral Device, FC41D, Configured Peripheral Device, Peripheral Device, Device</p>
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References

- [User Manual](#)