

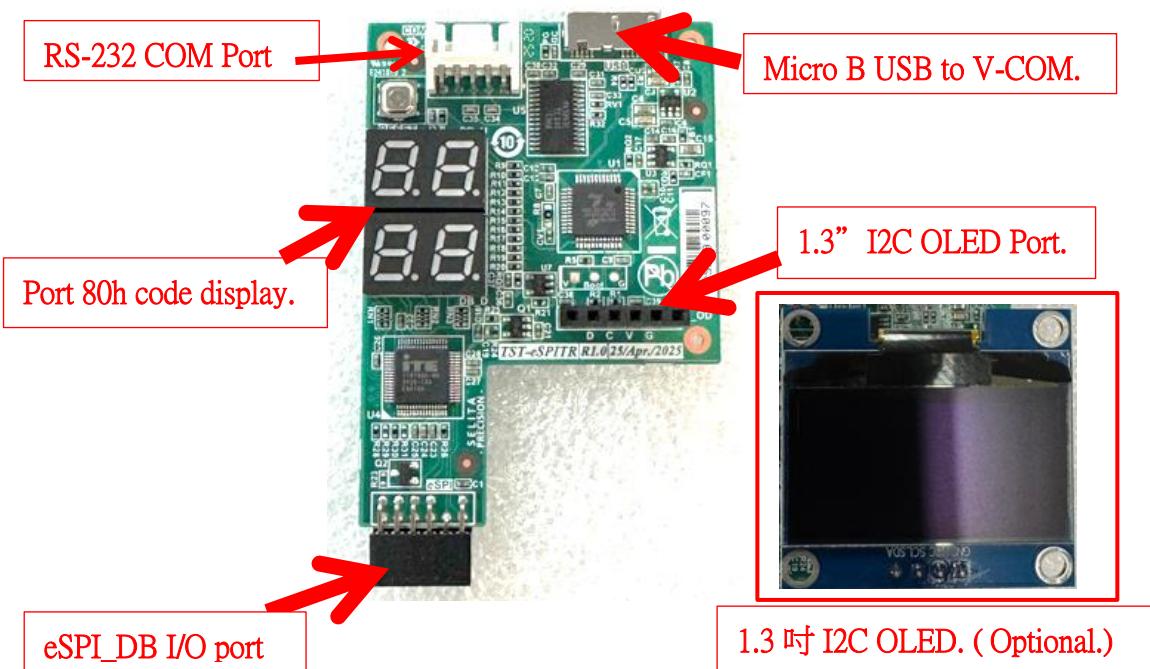
TST-eSPITR eSPI POST Code 測試卡



TST-eSPITR 產品特色：

- 採用 IT8786E-80 eSPI Interface PORT80 debug card chip.
- Compatible with eSPI specification v1.0.
- 採用 32-bit Arm® Cortex®-M0+ processor core 輔助解析 80h 資訊.
- 支援 1.3 吋 I2C OLED 顯示.
- 自動記錄 20 組 post code.
- 100%相容技嘉 AMD 主機板 eSPI_DB port.

TST-eSPITR 產品介紹：

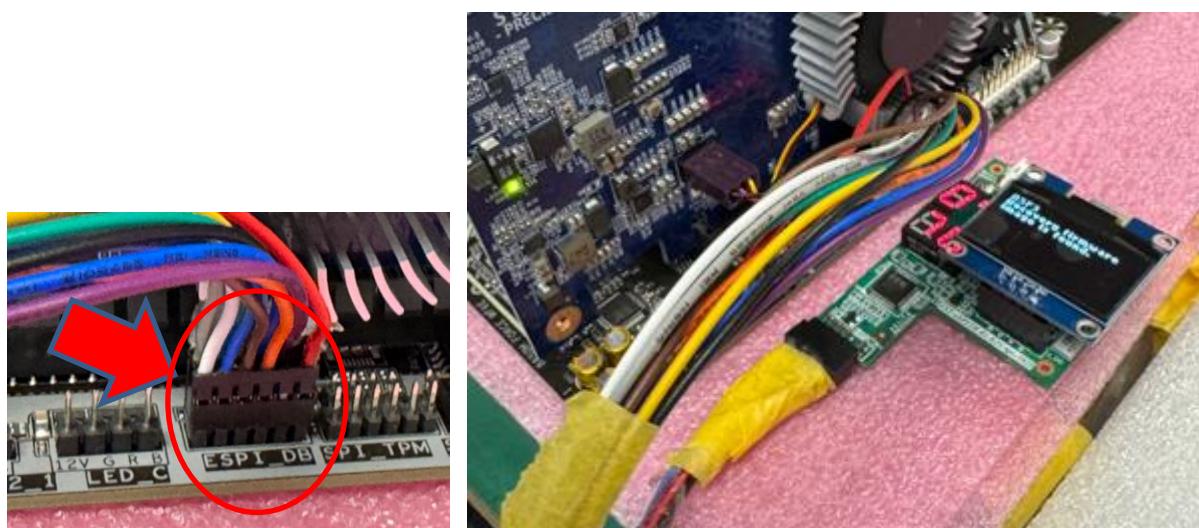


TST-eSPITR 使用說明：

1. 將治具安裝於主機板 ESPI_DB Port，開機即自動解析跑碼。

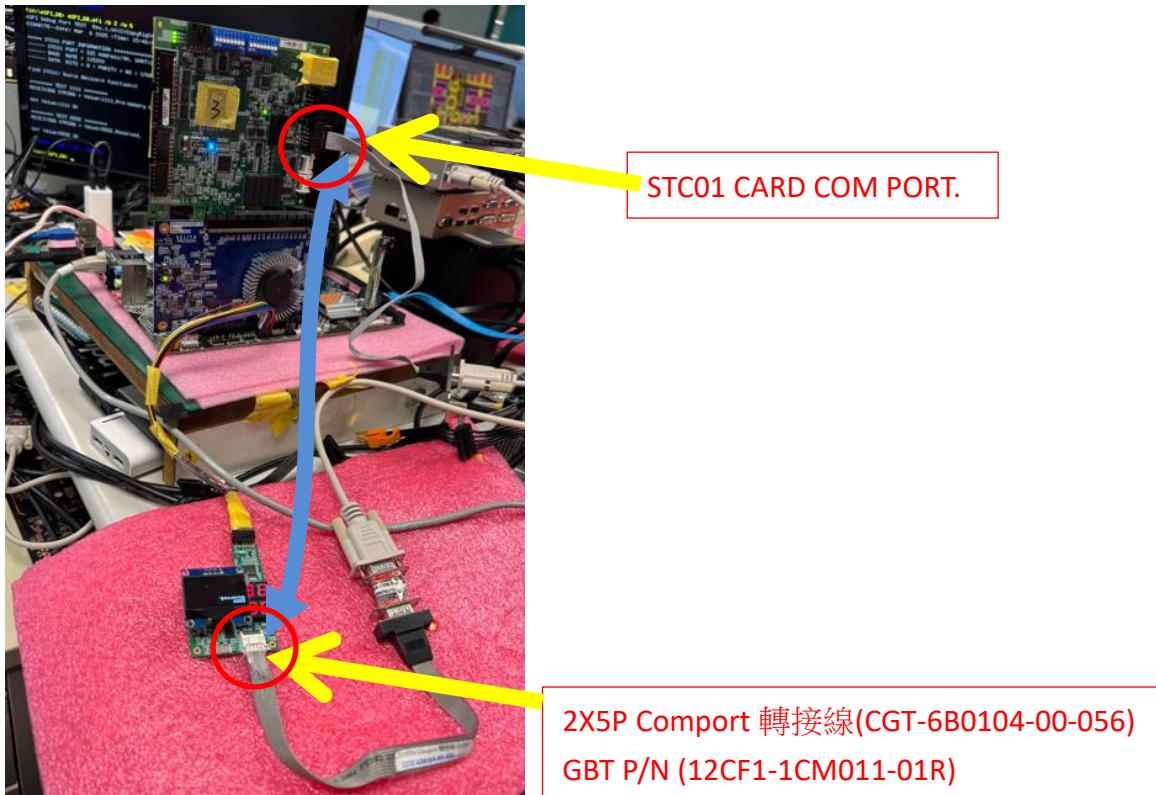


2. 若主板周邊有其它裝置卡干擾，可串接 ESPI_DB 轉接線 (CGD-5B0929-00-282)



TST-eSPITR UEFI 測試說明：

1. 治具安裝 2x5 COM CABLE 轉接線，連接至 STC01 卡 COM port.



2. UEFI 下使用 eSPI_DB.efi 程式測試

2-1. 執行 eSPI_DB.efi 即顯示程式相關參數說明，如下圖畫面:

```
fs0:\eSPI_DB> eSPI_DB.efi
eSPI Debug Port TEST Rev.1.00(C)CopyRight by Giga-Byte Technology Co.
GIGABYTE--Date: Mar 6 2025 :Time: 15:46:44 * Edited by Ksd.h--GIGABYTE
HELP message:
Usage: eSPI_DB.efi [/P Port] [/B Baud] [?]
PORT:
  1./P Port  :The port is set port number 1~8.
  2./B Baud  :The Baud of baud bps,default is 115200.
  3./W Time  :The Time is test setup wait time.
  4. ?       :Display the HELP message such as this.
Example:
  eSPI_DB /p 1
  eSPI_DB /p 8
    eSPI_DB /p 1 /W 5
  eSPI_DB /?
  The return value:
  0:Check All PASS!
  255:Check Fail!
```

2-1. 執行參數測試，範例：eSPI_db.efi /p 2 /w3

測試程式會傳送 1111 及 EEEE 訊息並自動判斷顯示結果。

```
fs0:\eSPI_DB> espi.nsh
espi.nsh> espi_db.efi /p 2 /w 3
eSPI Debug Port TEST Rev.1.00(C)CopyRight by Giga-Byte Technology Co.
GIGABYTE--Date: Mar 6 2025 :Time: 15:46:44 * Edited by Ksd.h--GIGABYTE

***** STC01 PORT INFORMATION *****
----- STC01 PORT = I2C Address:9A, UART:2
----- BAUD RATE = 115200
----- DATA BITS = 8 : PARITY = NO : STOP BIT =1

Find STC01! bus:e device:0 function:0

***** TEST 1111 *****
RECEIVING STRING = Value:1111,Pre-memory CPU initialization is started.

Get Value:1111 OK

***** TEST EEEE *****
RECEIVING STRING = Value:EEEE,Reserved.

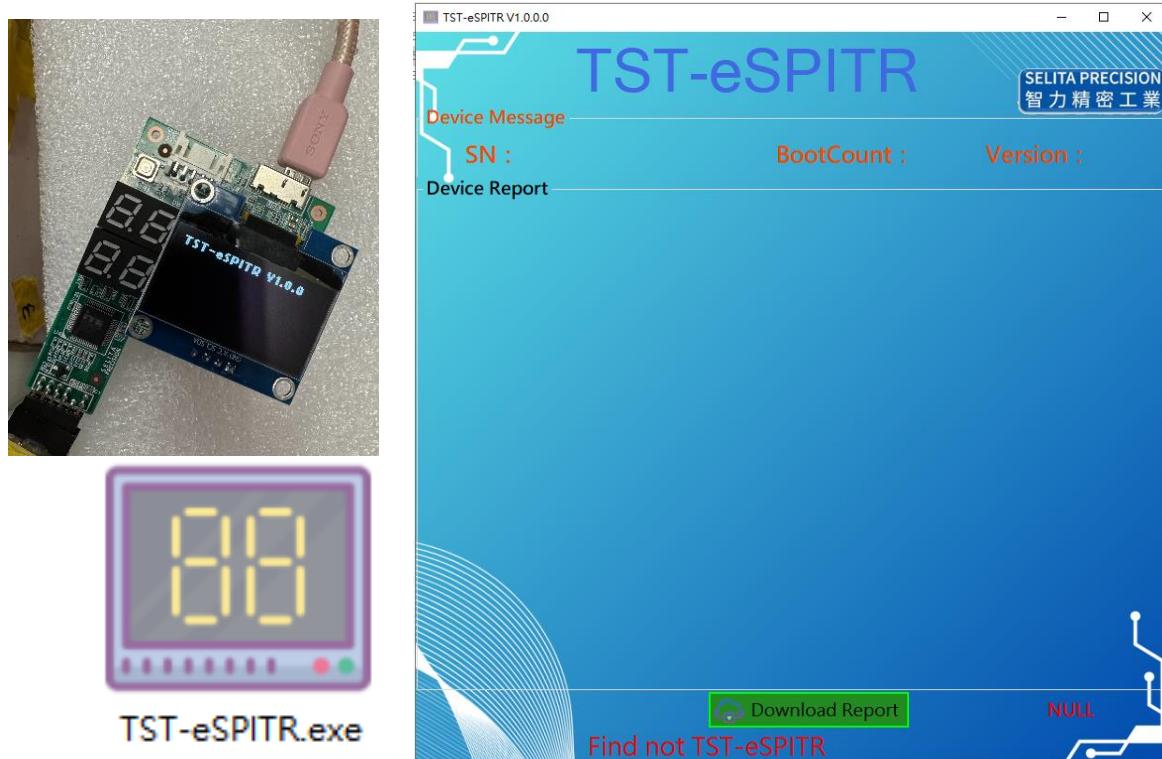
Get Value:EEEE OK

(Return Code = 0)...PASS!!
```



TST-eSPITR POST CODE 記錄下載：

1. 連接 Micro-USB 後開啟 TST-eSPITR 工具軟體..



2. 連線待讀取資料後，可選擇 Download Report 另儲存報告.(excel 檔.)

The screenshot shows the TST-eSPITR software interface with the following details:

- Device Message:** SN : null, BootCount : 17, Version : 1.0.0
- Device Report:** A table with columns: NO, Report_NO, Length, Time, Code, Description.
- Data in Device Report Table:**

NO	Report_NO	Length	Time	Code	Description
1	15	325	0	0080	Reserved for OEM use (OEM DXE initialization codes).
2	15		0	0280	Reserved for OEM use (OEM DXE initialization codes).
3	15		0	0200	Unknown.
4	15		0	F000	Unknown.
5	15		0	0000	Unknown.
6	15		0	F200	Unknown.
7	15		0	0000	Unknown.
8	15		0	F200	Unknown.
9	15		0	0100	Unknown.
10	15		0	F200	Unknown.
11	15		0	0200	Unknown.
12	15		0	F100	Unknown.
13	15		0	E60C	Unknown.
14	15		0	ABE5	Unknown.
15	15		0	ABBS	PCI device hot plug.
16	15		0	EOB1	Runtime AP installation ends.
17	15		0	E0B9	Reserved.
18	15		0	E090	Phase transfer to BDS (Boot Device Selection) from DXE.

- Software Buttons:** Download Report, COM9, File Saving...
- Excel Spreadsheet:** An open Excel sheet showing the same POST code log data. The first few rows are:

A	B	C	D	E	F
Time	code	Description			
0	80	Reserved for OEM use (OEM DXE initialization codes).			
0	280	Reserved for OEM use (OEM DXE initialization codes).			
0	200	Unknown.			
0	F000	Unknown.			
0	0	Unknown.			
0	F200	Unknown.			
0	0	Unknown.			
0	F200	Unknown.			
0	100	Unknown.			
0	F200	Unknown.			
0	200	Unknown.			
0	F100	Unknown.			
0	E60C	Unknown.			
0	ABE5	Unknown.			
0	ABBS	PCI device hot plug.			
0	EOB1	Runtime AP installation ends.			
0	EOE9	Reserved.			
0	E090	Phase transfer to BDS (Boot Device Selection) from DXE.			
0	E60C	Unknown.			
0	EO01	Unknown.			
0	EO46	Reserved.			
1	E60C	Unknown.			
1	E000	Unknown.			
1	0	Unknown.			
1	F200	Unknown.			
1	F000	Unknown.			
1	F100	Unknown.			
1	200	Unknown.			