

TST-SATA361 Rev0.1

TST-SATA361 測試治具



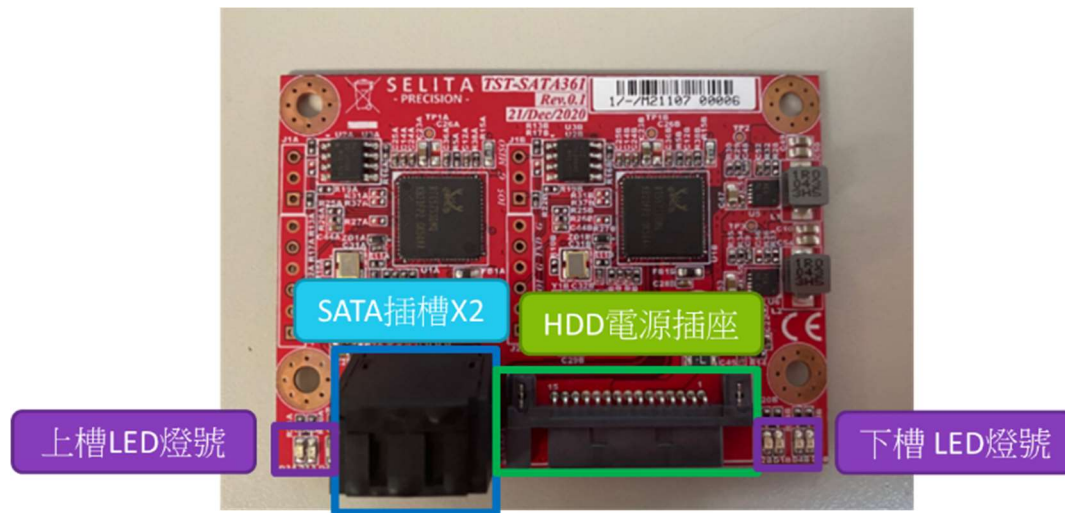
一、規格說明

1. 功能：SATA 測試治具，適用 Intel/AMD 平台
2. 規格：SATA3.0 向下支援 SATA2.0/1.0，內建 32MB RAM Disc
3. 可測試 SATA 讀寫速率，可達 500MB/S
4. 測試環境：WIN10、UEFI、DOS
5. 單卡具有兩個 SATA 槽，降低 SATA 測試成本
6. 支援 Pass/Fail 燈號，讀寫指示燈



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7. IO 說明：



測試程式說明

1. 測試環境：EFI

甲、主程式指令說明：**sata360spd.efi**(efi)

執行 **sata360spd.efi** 程式即會顯示相關參數說明及主程式指令範例。

```
fs4:\selitaV2> sata360spd.efi
SATA 360 speed Test Rev.1.01(C)Copyright by SELITA Technology Co.
SELITA--Date: Mar 16 2022 :Time: 12:01:18 * Edited by Joshua.Ans--SELITA
HELP message:
Usage: sata360spd [/b | /v filename] [?]
PORT:
    1./b filename:The filename of backup GEN speed.
    2./v filename:The filename of verify GEN speed.
Example:
    sata360spd /b file.dat
    sata360spd /v file.dat
The return value:
    0:Check All PASS!
    -1:Check Fail!
(Return Code = 255)...Para Err
```

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sata360spd.efi /b 1.dat 儲存當前 SATA 裝置配置

```
fs4:\selitav2> sata360spd.efi /b 1.dat
SATA 360 speed Test Rev.1.01(C)Copyright by SELITA Technology Co.
SELITA--Date: Mar 16 2022 :Time: 12:01:18 * Edited by Joshua.Ans--SELITA
1 AHCI Host Controller(s) found, 0 IDE IO Base found
Detect AHCI HBA:5151b000h==>
Detect the AHCI Controller:0 port:4 Speed=Gen3
Model Number: SELITA SATA361
Serial Number: SN012345678901234567
Controller Revision Number: JYT04
SATA Capabilities speed: [Gen1] [Gen2] [Gen3]
Ultra DMA Mode selected: [UDMA0]
Cylinders:16383 Heads:16 Sectors:63
=====
Detect the AHCI Controller:0 port:5 Speed=Gen3
Model Number: SELITA SATA361
Serial Number: SN012345678901234567
Controller Revision Number: JYT04
SATA Capabilities speed: [Gen1] [Gen2] [Gen3]
Ultra DMA Mode selected: [UDMA0]
Cylinders:16383 Heads:16 Sectors:63
=====
SATA AHCI mode verify PASS!
(Return Code = 0)...PASS!!
```

sata360spd.efi /v 1.dat 比對 1.dat 與當前 SATA 裝置

```
fs4:\selitav2> sata360spd.efi /v 1.dat
SATA 360 speed Test Rev.1.01(C)Copyright by SELITA Technology Co.
SELITA--Date: Mar 16 2022 :Time: 12:01:18 * Edited by Joshua.Ans--SELITA
1 AHCI Host Controller(s) found, 0 IDE IO Base found
AHCI Controller:0 port:4 Set Speed=Gen3 ==> GEN3 ==> ...PASS
AHCI Controller:0 port:5 Set Speed=Gen3 ==> GEN3 ==> ...PASS
SATA AHCI mode verify PASS!
(Return Code = 0)...PASS!!
```

如果有裝置異常

```
fs4:\selitav2> sata360spd.efi /v 1.dat
SATA 360 speed Test Rev.1.01(C)Copyright by SELITA Technology Co.
SELITA--Date: Mar 16 2022 :Time: 12:01:18 * Edited by Joshua.Ans--SELITA
1 AHCI Host Controller(s) found, 0 IDE IO Base found
AHCI Controller:0 port:4 Set Speed=Gen3 ==> HD Err
AHCI Controller:0 port:5 Set Speed=Gen3 ==> GEN3 ==> ...PASS
(Return Code = 255)... FAIL
```


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乙、主程式指令說明：satasum.efi

執行 **satasum.efi** 程式即會顯示相關參數說明及主程式指令範例。

```
fs4:\Selita_toolV1\Selita_tool> satasum.efi
SATA36x sum verify Test Rev.1.033(C)CopyRight by SELITA Technology Co.
SELITA--Date: Mar 10 2022 :Time: 09:21:12 * Edited by Joshua.Ans--SELITA
HELP message:
Usage: satagbt [/s sum]
PORT:
    1./s sum :The sum is set SATA360 devie verify number.
    2./RST   :Set HD reset cmd not running.
Example:
    satagbt /s 2
    The return value:
    0:Check All PASS!
    -1:Check Fail!
(Return Code = 255)...Para Err
```

EFI 指令：Satasum.efi /s [數量] 計算 SATA 槽接上 SATA360 和 SATA361 總數

```
fs4:\Selita_toolV1\Selita_tool> satasum.efi /s 2
SATA36x sum verify Test Rev.1.033(C)CopyRight by SELITA Technology Co.
SELITA--Date: Mar 10 2022 :Time: 09:21:12 * Edited by Joshua.Ans--SELITA
1 AHCI Host Controller(s) found, 0 IDE IO Base found
Detect AHCI HBA:5141b000h==>
Not SATA36x device!!
Not SATA36x device!!
Get SATA36x Port:4 Device:SATA36x
Get SATA36x Port:5 Device:SATA36x
=====
Get SATA36x Dev:2
Set SATA36x Dev:2
Scan SATA 36x verify is PASS!

rm/del: Cannot find fs4:\fail.gb - Not Found
(Return Code = 0)...PASS!!
```