Check Device User Manual

USB Interface

Open "Device Manager", and check the HID device (VID=1403, PID=5001) is exist



I2C Interface

Use "USB Bridge" converter board to connect between I2C interface device and computer, refer below figure:



Open "Device Manager", and check the HID device (VID=1403, PID=5001) is exist

| 鸟 裝置管理員 | HID-compliant device 內容 ? 🗙 |
|--|---|
| 檔案(E)執行(A)檢視(V)說明(E ← → ■ ■ ■ ● ② ■ 3 ≈ 2 | 一般 驅動程式 詳細資料 |
| ■ 3300_PETITK_XP ● DVD/CD-ROM 光碟機 ● IDE ATA/ATAPI 控制器 ● 函 人性化介面装置 ● HID-compliant device ● HID-compliant device ● HID-compliant device ● HID-compliant device | ★置例項識別碼 ★ HIDWID_1403&PID_5001&COL02%&34251618&0&0001 |
| A P Quick Launch Buttons B USB 人性化介面裝置 B USB 人性化介面裝置 + 3 系統裝置 + ● 音效, 視訊及遊戲控制器 + ● 慶理器 | |
| + ♥ 通用序列進流排控制器 + J 連接埠 (COM 和 LPT) + ○ 滑鼠及其他指標裝置 + 號 電池 + 3 電腦 - 3 転相緊 | |

Setting



Open ModuleTestTool, enter the "Test Setting" function.

| NOCOL ITO: | 74 | | |
|------------|------------------------|------------|-----|
| NOROW ITO: | 54 | | |
| Interface: | e/se | | I2C |
| Please a | adjust the red rectang | e's bounds | |
| | Press [ESC] to back | ζ. | |
| | back | | |
| | | | |
| | | | |

NOCOL: The number of column ITO NOROW: The number of row ITO

Interface: USB or I2C

Test bounds: If the panel size is not same as computer's display screen, you can adjust it, like below figure:



then back to the menu, the setting will be saved.

Test

Boundary Test



Boundary Test can check touch panel ITO (column and row) are all ok (didn't have open or short condition), or there has some broken ITO line (open) or short point.

Pressure Test



Pressure Test can check the line width is correspond with input force.

Location Test





Location Test can check the input point on touch panel is the same as system display point.

Key Press Test

| Key Press Test | | | |
|-------------------|---|---|--|
| 222111 | | | |
| 1 | 2 | 3 | |
| 4 | 5 | 6 | |
| 7 | 8 | 9 | |
| 0 | < | С | |

Key Press Test can check "click" function.

Open Short Test



This function is only support Firmware: 130 or after. Please use stylus or fingernail to test

Test Row: from up to down or from down to up to press touch panel, it will draw blue line and number, if any number of 0 to NOROW doesn't appear, It means this number of row maybe open short.



Test Column: from left to right or from right to left to press touch panel, it will draw green line and number, if any number of 0 to NOCOL doesn't appear, It means this number of column maybe open short.



I2C Command Test



If the Module's interface is I2C or SPI, user can use this function.

| | Reset | | | |
|------------|------------|------------|--------|--|
| | | | | |
| | Sleep In | | | |
| | _ | | | |
| | Sleep Out | | | |
| | | | | |
| arg1(Hex): | arg2(Hex): | arg3(Hex): | Submit | |
| | | | | |
| | back | | | |

Restart: reset IC Sleep In: go to sleep in mode

Sleep out: go to normal mode

Other command : Input other command to IC ([arg1] [arg2], Hex format)

One Parameter:

| arg1(Hex): | 80 | arg2(Hex): | arg3(Hex): | Submit |
|------------|----|------------|------------|--------|
| | | | | |

Ex:

80 : Sleep In

81 : Sleep out

Two parameters:

| | | 40 | | |
|------------|------------|----|------------|--------|
| arg1(Hex): | arg2(Hex): | | arg3(Hex): | Submit |
| | | | | |

Ex:

Digital threshold control : [b3] [0~ff] Continuous touch event define : [95][1~ff]

Three parameters:

| | 8c | | ff | | ff | |
|------------|----|------------|----|------------|----|--------|
| arg1(Hex): | | arg2(Hex): | | arg3(Hex): | | Submit |
| | | | | | | |

Ex:

```
IC event definition : [8c][0~ff][0~ff]
```

PS:

Every command doesn't change the default value of IC, when hardware reset, all setting will become the default value.

Other command please refer ST9RM01 Command Set V1.4

USB Command Test



If the Module's interface is USB, user can test this function.

| IDTH(Hex): | | Chang | je IDTH | |
|------------|------------|-------|---------|--|
| | | | | |
| arg1(Hex): | erg2(Hex): | | Submit | |
| | | | | |
| | | | | |
| | back | | | |

IDTH : set the threshold to IC [0~ff]

Other Command : Input other command to IC ([arg1] [arg2] ,Hex format), Ex:

Threshold : [b3] [0~ff]

PS:

Every command doesn't change the default value of IC, when hardware reset, all setting will become the default value.

Other command please refer ST9RM01 Command Set V1.4