

Components Description

CN1:
SATA Power connector
External 12V input

SW1:
12V Power source selection

LED2/LED3: Red+Green+Blue
Tri-color LEDs

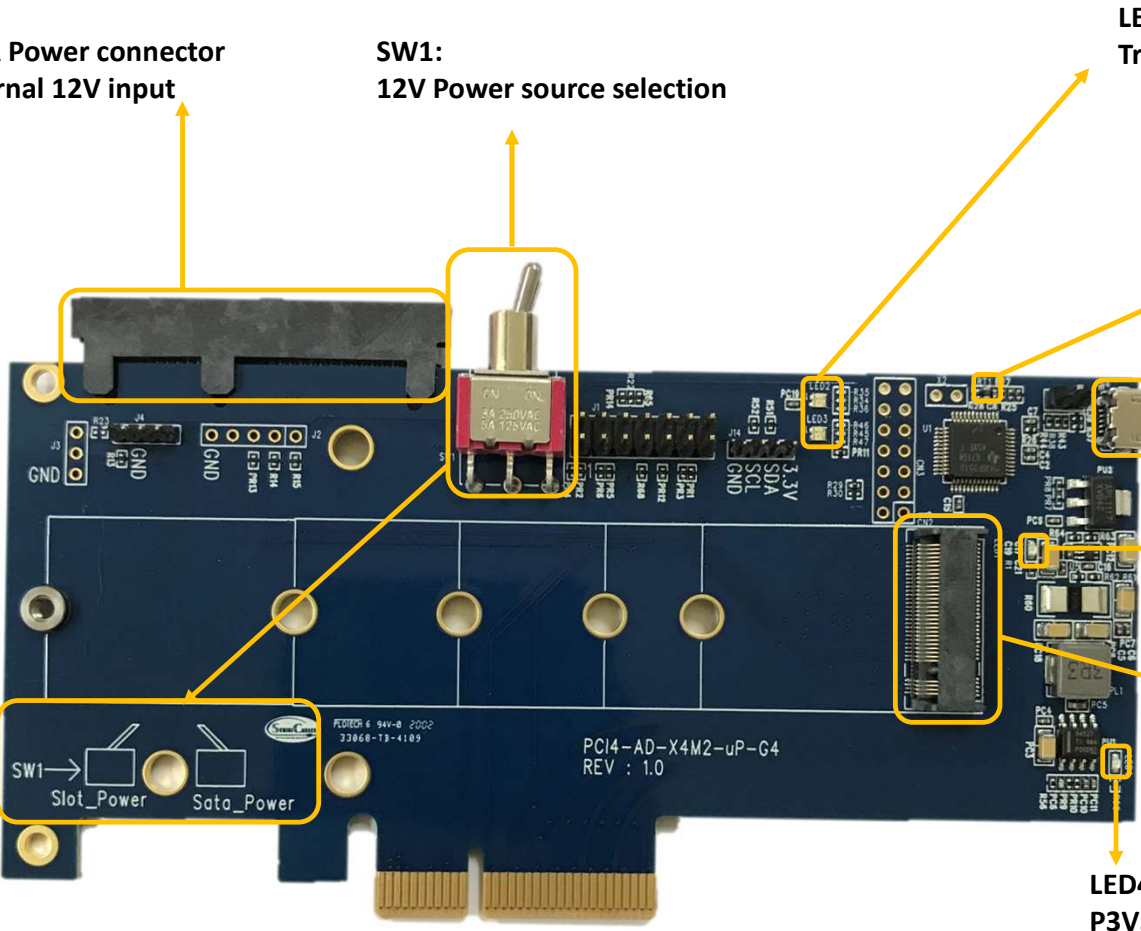
RT1:
Temperature sensor

CN4:
Micro USB connector

LED1: Green
M.2 Activity LED

CN2:
PCIe Gen4 M-Key M.2 connector

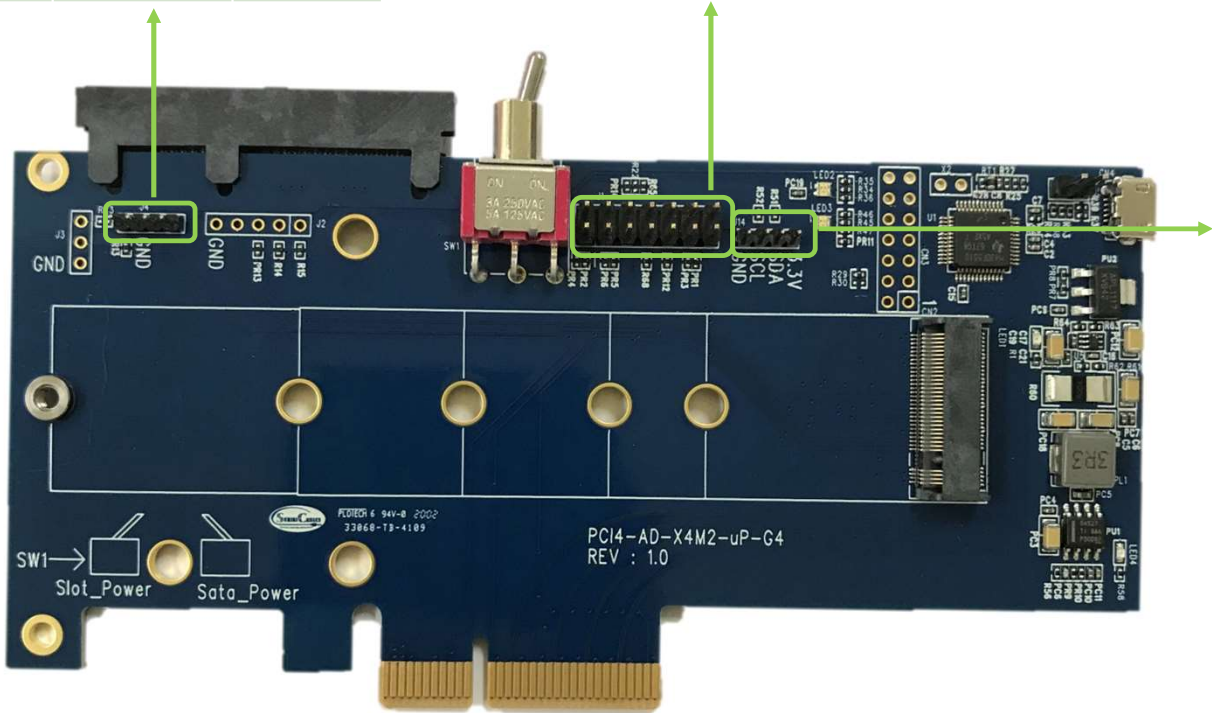
LED4: Blue
P3V3 LED



Headers Description

J4			
M.2_Pin30	GND	M2_MFG_CLK	M2_MFG_DATA

J1						
SLOT_WAKE#	SLOT_CLKREQ#	SLOT_PERST#	NC	SLOT_PRSENT#	SLOT_CLKREQ#	MSP_BUF_SEL
M2_WAKE#	M2_CLKREQ#	M2_PERST#	M2_IFDET#	M2_PRSENT#	M2_DEVSLP	GND



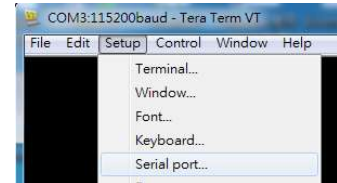
J14			
GND	M2_SCL	M2_SDA	3.3V

CLI Setup

Step 1. Install and launch Tera Term application
(or Hyper Terminal requires version 3.0 or higher).



Step 2: To ensure proper communications between NVMe JBOF controller and the VT100 Terminal emulation, please configure the VT100 Terminal emulation settings to the values shown below:



Step 3:

For "Port", select COM3 in this example.

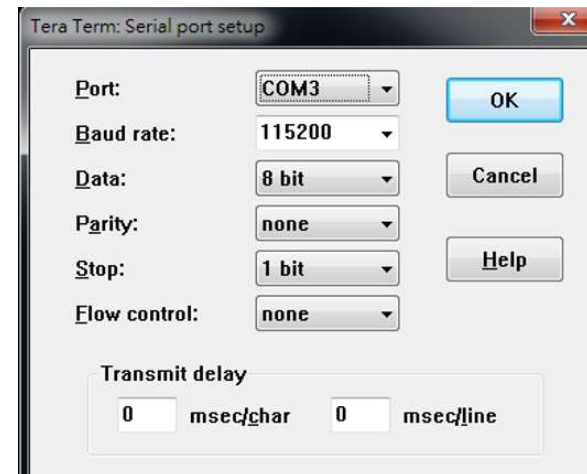
(Depend on which COM port used on Host)

For "Baud rate", select 115200.

For "Data", select 8 bit. For "Parity", select none.

For "Stop", select 1 bit. For "Flow control", select: none.

Click OK when you have finished your selections.



CLI Commands

Help

This command provides an online table of contents, providing brief descriptions of the supported command groups and built-in commands.

Usage: help

```
File Edit Setup Control Window KanjiCode Help
help
Command      Description
=====
lsd           - List Devices Status
              - Usage: lsd

led           - Set led On/Off
              - Usage: led LedNum [on|off] or led toggle

select       - Set I2C direction
              - Usage: select [0|1] (0:Header to M2, 1:uP to M2 )
              - 0:Header to M2, 1:uP to M2

iicw         - I2C Write bytes
              - Usage: iicw <SlaveAddress(H)> <WriteData(H)...>
              - WriteByte must be between 1 and 32 bytes

iicr         - I2C Read bytes
              - Usage: iicr <SlaveAddress(H)> <NumBytesToRead(D)>
              - ReadByte must be between 1 and 32 bytes

iicwr        - I2C WriteRead bytes
              - Usage: iicwr <SlaveAddress(H)> <NumBytesToRead(D)> <WriteData(H)>
              - ReadByte must be between 1 and 32 bytes

ver          - FW Version
              - Usage: ver
```



lsd

Shows the temperature of RT1 and the current M.2 3.3 voltage consumed.

Usage: lsd

```
File Edit Setup Control Window KanjiCode Help
lsd
=====
Temperature
=====
Temperature: 23
=====
Current
=====
Current: 400 mA
```

led

Turn on the Tri-colors LEDs or toggle light.

Usage: led <LED_id(D)> <on|off>

```
File Edit Setup Control Window KanjiCode Help
cmd>led 1 on
cmd>led 2 on
cmd>led 3 on
cmd>led 4 on
cmd>led 5 on
cmd>led 6 on
cmd>
```

```
File Edit Setup Control Window Help
cmd>led toggle
```

There are two Tri-color LEDs on location LED2 and LED3 built in board.

Parameter LED1 is **Green**, LED2 is **Red**, LED3 is **blue** color in LED2

Parameter LED4 is **Green**, LED5 is **Red**, LED6 is **blue** color in LED3



select

Select the M.2 SMBus accessing from on board header or Turn on the Tri-colors LEDs

0: Header(J14) to M.2

1: uP to M.2

Usage: select<0|1>

```
File Edit Setup Control Window KanjiCode Help
cmd>select 0
I2C Direction: U2 to M2
cmd>select 1
I2C Direction: uP to M2
```

iicw

Write 3Bytes of data to M.2 drive

Usage: iicw <Device Addr(H)> <Register Addr(H)> <WriteData(H)>

- device Addr(H) : Device address
- Register Addr(H) : register address
- WriteData(H) : 3 bytes data

```
File Edit Setup Control Window Help
cmd>iicw a0 0 aa bb cc
SlaveAddress:0xa0, WriteData: 0x0 0xaa 0xbb 0xcc
```

Note: There is a EEPROM with 0xA0 address in board for any configuration data store.



iicr

Read data from device

Usage: iicr <Device Addr(H)> <read byte(D)>

- device Addr(H) : Device address
- read byte(D) : numbers of byte

```
cmd>iicr a0 10
SlaveAddress:0xa0 NumBytesToRead:10
buf[0]:0xaa
buf[1]:0xbb
buf[2]:0xcc
buf[3]:0xff
buf[4]:0xff
buf[5]:0xff
buf[6]:0xff
buf[7]:0xff
buf[8]:0xff
buf[9]:0xff
```

iicwr

Read data from device and start from address

Usage: iicwr <Device Addr(H)> <read byte(D)><start addr(H)>

- device Addr(H) : Device address
- read byte(D) : numbers of byte
- start addr(H) : start address

```
cmd>iicwr a0 8 0
SlaveAddress:0xa0 NumBytesToRead:8 WriteData:0x0
buf[0]:0xaa
buf[1]:0xbb
buf[2]:0xcc
buf[3]:0xff
buf[4]:0xff
buf[5]:0xff
buf[6]:0xff
buf[7]:0xff
```