Raspberry Pi USB to M.2 SATA SSD Converter Board

1. Introduction

Easy install and utilize M.2 NGFF SATA SSD Drive to your embedded Raspberry Pi!

1.1. Features

- Connect Raspberry Pi USB to M.2 NGFF 80/60/42/30 mm SATA SSD
- Compliant with Universal Serial Bus Specification Revision 2.0 (Data Rate 1.5/12/480 Mbps)
- Compliant with Open Host Controller Interface Specification for USB Rev 1.0a
- Compliant with Enhanced Host Controller Interface Specification for USB Rev 0.95
- Both USB micro-B connector and USB 5Pin Pinheader on board for Pi connection
- USB2.0 5Pin Pin Header Assignment: 5V, D-, D+, NC, GND
- On board activity LED for M.2 access
- M.2 NGFF type 2280-D5-B connector on board
- Movable M.2 NGFF stand-off and multiple plated-holes supports type 2280, 2260, 2242 and 2230 SSD
- Supports dual-sided SSD module 1.5mm component height on the top and bottom side
- PCBA powered by Raspberry Pi USB Bus
- Jumper selection either PWR-U external 5V sufficient power or Raspberry Pi own USB bus power to M.2 SSD

2. Installation

1. Connect this board to Pi via USB Micro-B cable (**USB_m**) or 5Pin cable (**USB_P**).
2. **5V_IN** Select board & M.2 SSD power from Pi USB 5V bus (**USB**) or external 5V (**PWR-U**).
3. If **5V_IN** selection on **PWR-U**, connect external 5V power to Micro-B **PWR-U.**
4. Install M.2 SSD.

USB 5Pin Connector Signal

	Label	*Signal Name*
O	GND	Signal ground
O	NC	Keyed
O	D+	USB D+ signal
O	D-	USB D- signal
O	+5V	USB +5V

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