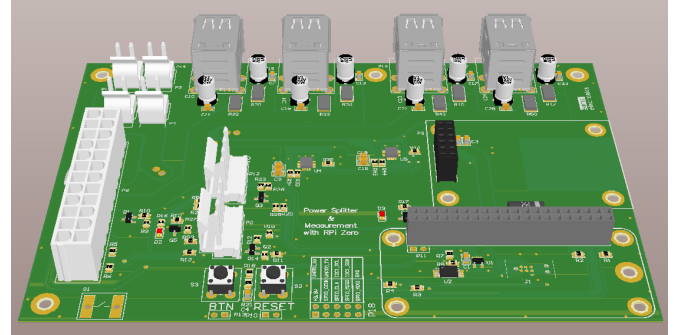




ATX Power Supply splitter for Raspberry Pi Clusters

1 Overview

- 8x USB-A port for 5V output
- Voltage, Current and power measurement for each channel
- 2x 5V output for general purposes
- 2x 12V output for general purposes
- 2x FAN connector



2 Description

- The ATX power splitter connector utilizes ATX power to split the power to 8 USB port for Raspberry Pi cluster applications.
- 40-pin header connector for Raspberry Pi Zero. Voltage, current and power measurement for each channel are on I²C bus available. Pi Zero is powered by 5V Standby current from ATX power supply.
- 2x 4-pin FAN connector, controlled by Raspberry Pi with PWM. FAN RPMs are also available for Raspberry Pi to read.
- One user button and one user LED are available for user programming. Button can be programmed as on/off switch for ATX power supply.
- 2x PAC1934 voltage and current sensors from microchip on I²C bus. Linux kernel driver and device tree blob are available. Device I²C addresses: 0x10, 0x1F
- 12-pin connector for Ethernet over SPI modules to bring the ethernet functionality to Raspberry Pi, if needed.
- Onboard EEPROM for board specific data as well as for HAT (Hardware Attached on Top) specifications.
- 10-pin header for UART, I²C, SPI connections.
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3 Technical specification

