

OpenPLC NYU TE

This is like OpenPLC "secure edition"

Changes from OpenPLC V2:

(To NYU edition)

- 1) Reduce I/O to 4 each instead of 8 each
- 2) Add current monitors
- 3) ADC to I2C version instead of SPI
- 4) Update DC-DC converter to newer version

(To TE edition)

- 1) Add Pico as Hardware Trojan
- 2) Add bypass and isolation jumpers so Pico can take over signals

Vendor codes == JLCPCB part numbers

DONE Jumpers or something for changing value of resistors/caps on comm lines (HW trojan) - I put generic jumpers in JP16/JP17

DONE Made current ADCs 16 bit and finer resolution current sensor

DONE Flipped PI Zero footprint to make it standard (PI Zero pins are usually soldered up not down)

DONE Add both an Accelerometer and a Qwiic header for further ones

DONE Power monitor on Pico

DONE Add test points (headers) for each of the digital outputs

DONE Email FK about ordering PI Zero W

TLIS0128E1000 / C190955 is a 2-axis Magnetometer in stock

FX058700CQR1 / C432308 is a 3-axis accelerometer, 3-axis magnetometer in single package - only 43 in stock

Monitor Accelerometer / Magnetometer

