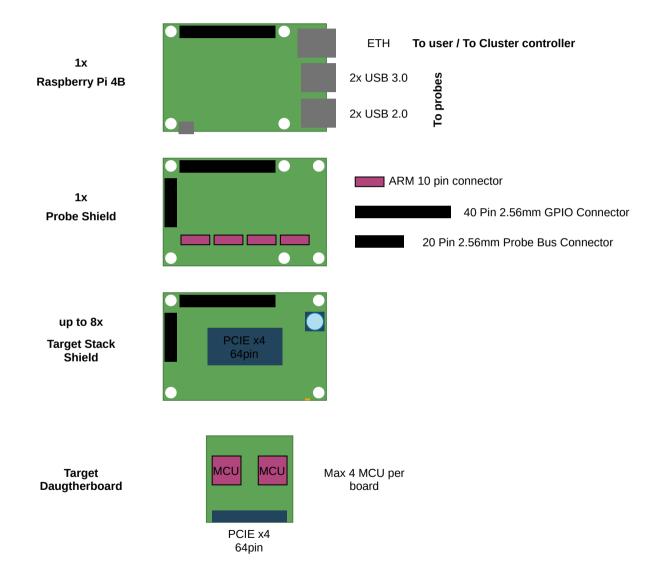
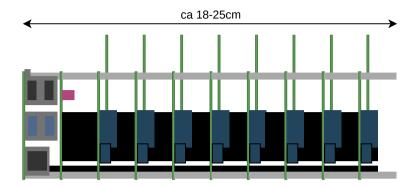


Layout

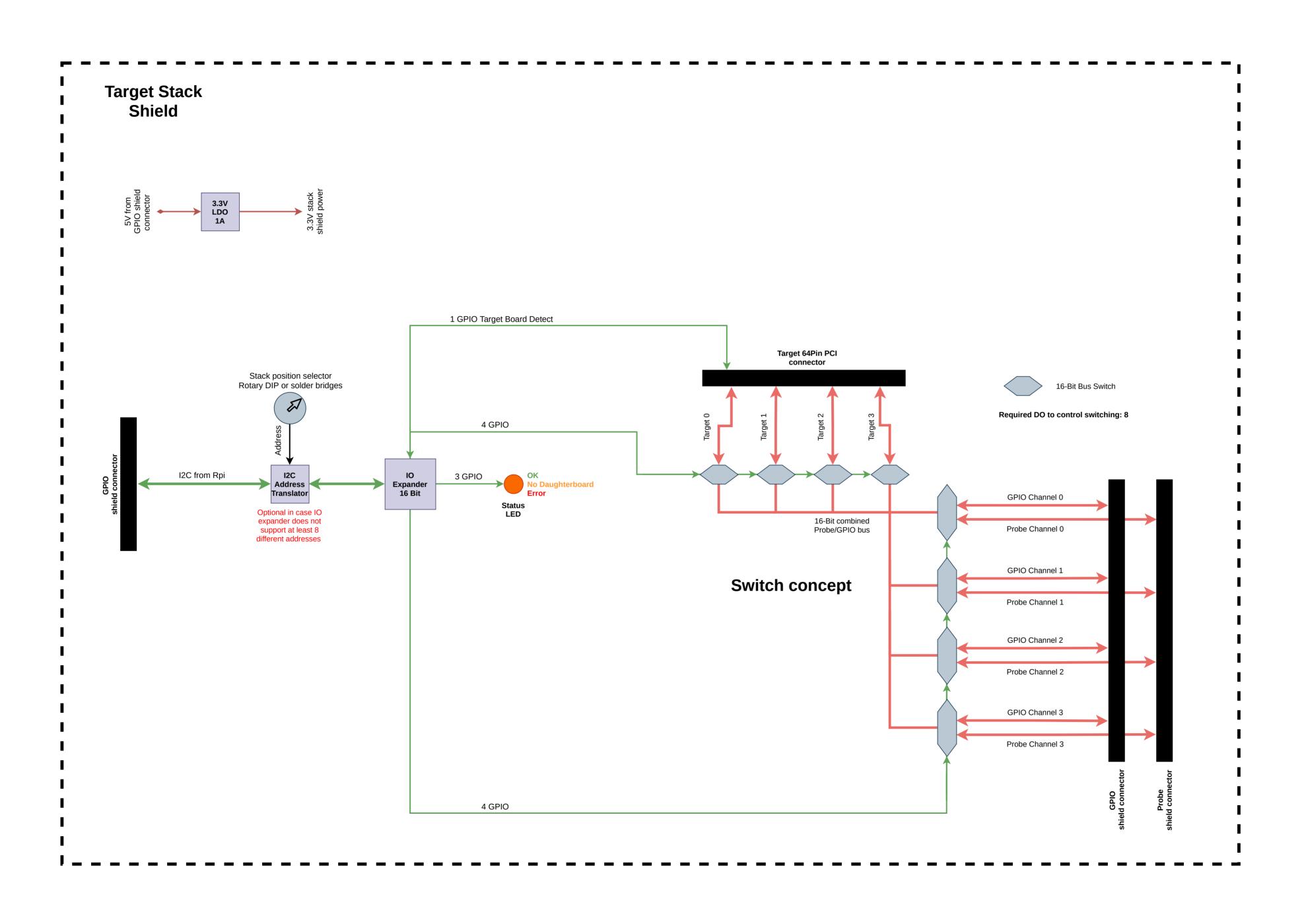




Connectors

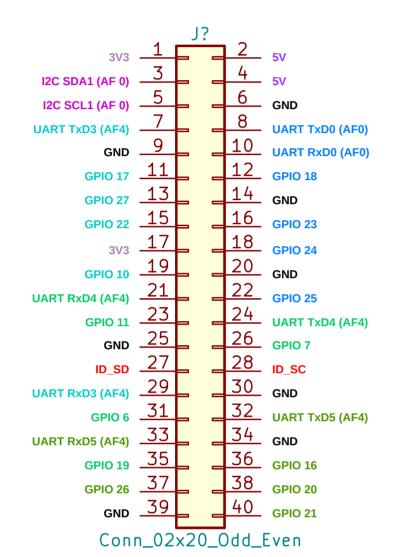
Possible GPIO shield / Probe shield pass through connectors:

ESQ-120-34-L/T-D (40Pin) ESQ-110-34-L/T-D (20Pin)	16.13mm PCB 7.11mm	Price: ~8-10CHF Availability: Non plated, ol
SSQ-120-04-L/T-D (40Pin) SSQ-110-04-L/T-D (20Pin)	8.51mm PCB Board spacing ca 17m 14.83mm	Price: ~3-6CHF Availability: non plated ok
TSM-120-03-F/L-DV (40Pin) TSM-110-03-F/L-DV (20Pin) with SSM-120-F/L-DV (40Pin) SSM-110-F/L-DV (20Pin)	7.37mm PC8 Board spacing ca 17m 14.48mm	Price: ~9CHF per pair Availability: ok



Raspberry 40pin connector config bcm2711 (rpi designations)

Per GPIO channel: 4x GPIO, 1x UART



I2C Bus: Controls all IO expanders on Target Stack Shields

Unused

ID_XX: Unused

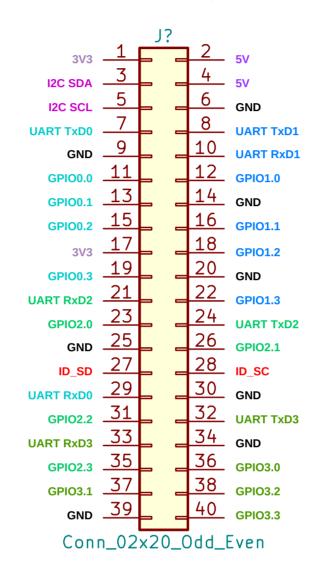
GPIO Channels:

Channel 0 Channel 1 Channel 2

Channel 3

GPIO shield connector (hive designations)

Per GPIO channel: 4x GPIO, 1x UART



I2C Bus: Controls all IO expanders on Target Stack Shields

Unused

Power source for shields

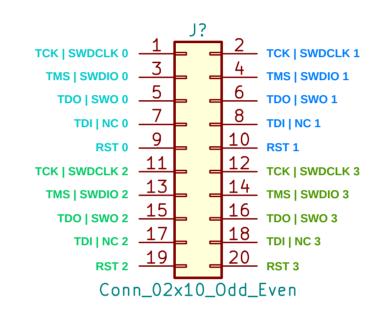
ID_XX: Unused

GPIO Channels:

Channel 0 Channel 1 Channel 2

Channel 3

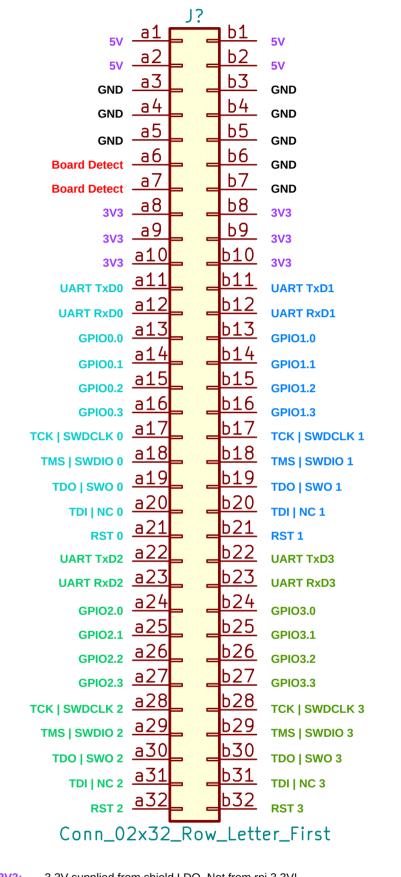
Probe shield connector (hive designations)



Probe Channels:

Channel 0 Channel 1 Channel 2 Channel 3

Target 64Pin PCI connector (hive designations)



3V3: 3.3V supplied from shield LDO. Not from rpi 3.3V!

5V: 5V supplied by power supply usb c rpi input

Board Detect: Needs to be connected together on daughterboard, allows shield to detect if daughterboard is present

Channels:

Channel 0 Channel 1

Channel 2

Channel 3