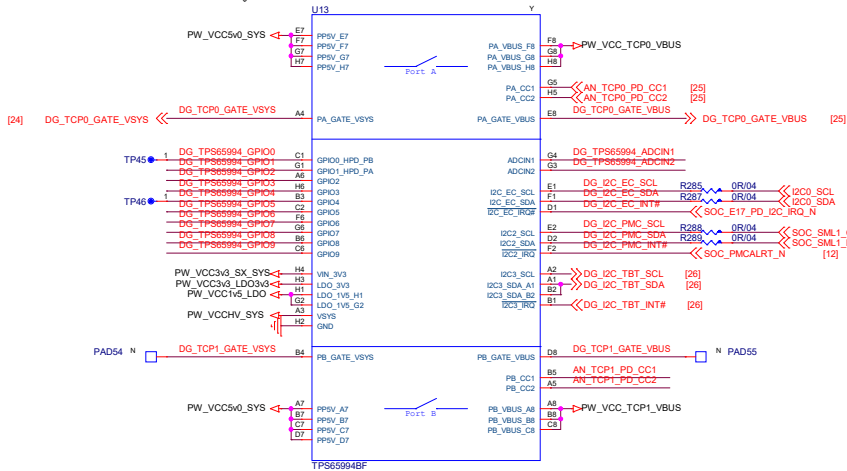
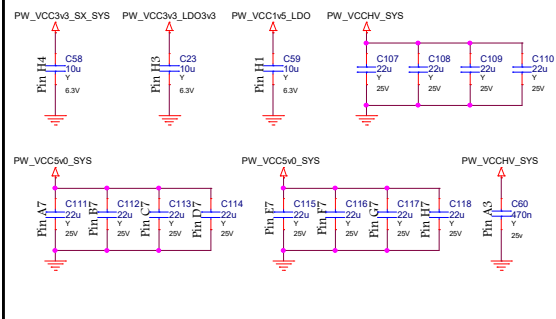


TPS65994 (USB PD 3.0) - Dual Port Controller

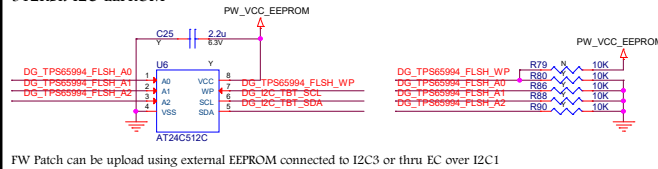
TPS65994 Symbol



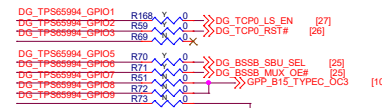
Power Supply Filters



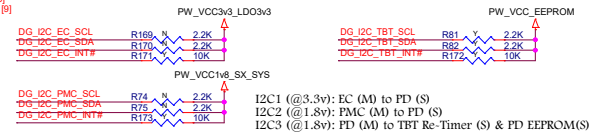
512Kbit I2C EEPROM



HW Pull-Up/Pull-Down



Ensure minimum of 100uSec between
TCPx_LS_EN assert to TCPx_RESET# assert

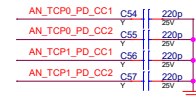


ADCIN1 = 7 EC_I2C Address:
ADCIN2 = 0 Port A: 0x20
 Port B: 0x24

From TPS65994 Datasheet:

SafeMode: The device does not enable the sink path. USB PD is disabled until configuration is loaded. Note that the configuration could put the device into a source-only mode. This is recommended when the application loads the patch from EEPROM.

For all other configurations (AlwaysEnableSink, SinkRequires_3.0A, SinkRequires_1.5A, NegotiateHighVoltage), I2C isolation circuit will be recommended on HBR's I2C pins, to avoid I2C glitch.



To support vPRO docking PD FW should support vPRO Alternate mode and use vHPD

TI994 GPIO Mapping:
TCP1, L6, EN, GPIO0

TCP1_LS_EN - GPIO0 (Push-Pull)
TCP0_LS_EN - GPIO1 (Push-Pull)
TCP0_RESET# - GPIO2 (Push-Pull)
TCP1_RESET# - GPIO4 (Push-Pull)
BSSB_MUX_SEL - GPIO5 (Push-Pull)
BSSB_MUX_OF# - GPIO6 (Push-Pull)
PROCHOT# - GPIO9 (Open-Drain)

For more GPIOs please follow MTL-P/M RVP

uLDO for EEPROM

