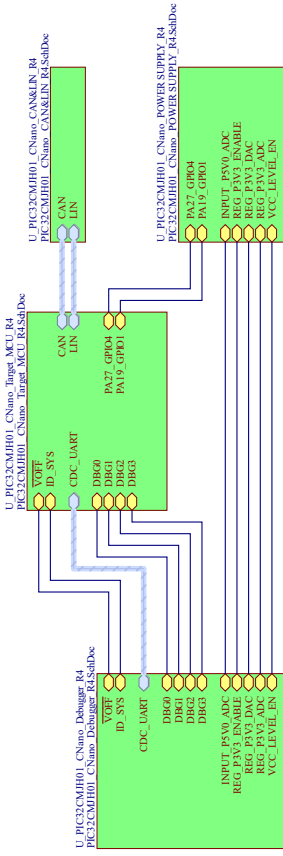


PIC32CM JH01 Curiosity Nano + Touch



LABEL
 Cannot
 open the
 file
 M.WORK
 [ASSY# / REV]
 [SN: / SERIAL]
 [DATE: yyyy-mm-dd]
 PCB LABEL: 18X6mm

Power Supply

U3 - Cur strap used for full separation of target power from the level shifters and on-board regulators.
 - For current measurements using the on-board power supply, this strap must be cut and in
 - For current measurements using an external power supply, this strap could be cut for more
 accurate measurements. Leakage back through the switch is in the micro ampere range.

MIC3353:
 Vin: 2.7V to 5.1V
 Vout: 1.25V to 5.1V
 I_{max}: 500mA
 Drop-out (typical): 50mV @ 150mA
 Accuracy: 2% (initial)
 Thermal shutdown and current limit
 Maximum output voltage is limited by the trip at voltage and the drop-out voltage in the regulator.
 (V_{max} = V_{in} - drop out)

uEDBG USB - PSV0 comes from DEBBUGER USB connector

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 (V_{max} = V_{in} - drop out)

Debugger

Adjustable output and limitations:
 - The level shifters have a minimal voltage level of 1.65V and will limit the minimum operating voltage allowed for the target to still allow communication.
 - The output switch has a minimal voltage level of 1.70V and will limit the minimum voltage delivered to the target.
 - Firmware configuration will limit the voltage range to be switched.
 - Firmware feedback loop will adjust the output voltage accuracy to within 0.5%.

J19
 Programming connector for factory programming of Debuggers

MIC3353:
 Vin: 2.7V to 5.1V
 Vout: Fixed 3.3V
 I_{max}: 500mA
 Dropout: 200mV @ 500mA

Target MCU

uEXT: on the board, functions the important output directions of the signal respectively to its source.
 CDC_TX: output from the DEBBUGER.
 CDC_RX: output from the DEBBUGER.
 TX: output from the TARGET device.
 RX: input to the TARGET device.

U1 PIC32CMJH01_CNano_Target_MCU_B4
 U2 PIC32CMJH01_CNano_Debugger_R4
 U3 PIC32CMJH01_CNano_PowerSupply_R4