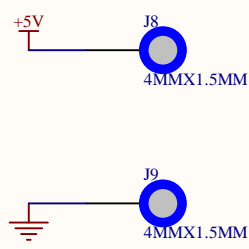
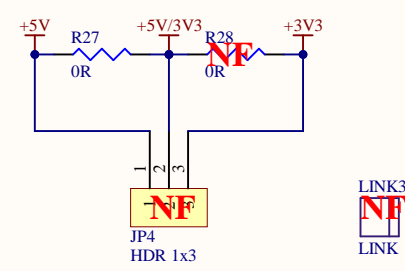


28PINS - SCHEMATIC

POWER PADS

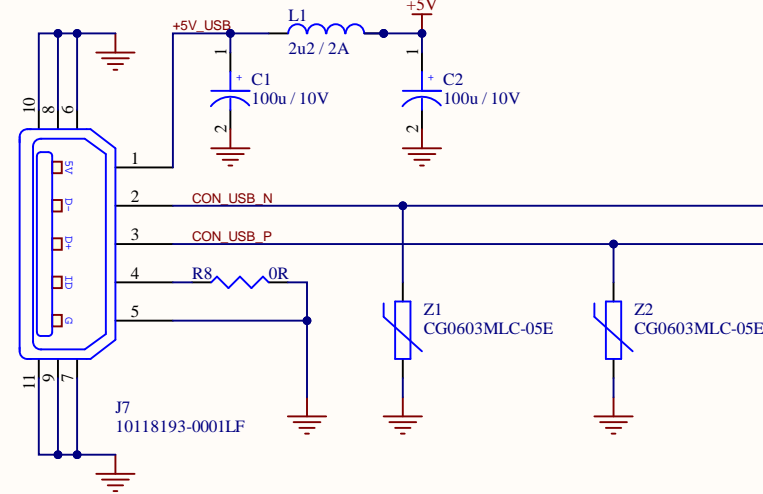


POWER SELECTION

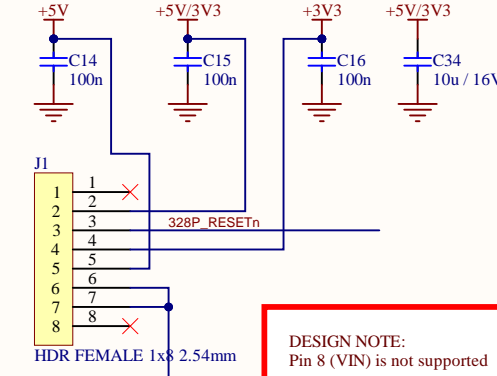


DESIGN NOTE:
This board can be powered from either USB
connector (D+ and D- pins) or from a 3.3V power rail
through J1 pin 4. If 3.3V is used, the R20 and
R21. In this case, J1 pin 4 and R21 must NOT be shorted
otherwise the board may be damaged.

Micro USB

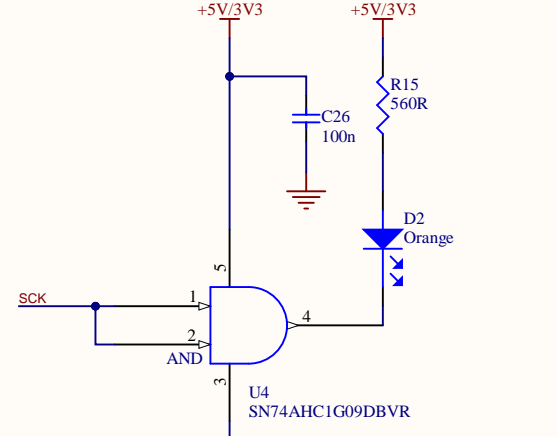


POWER



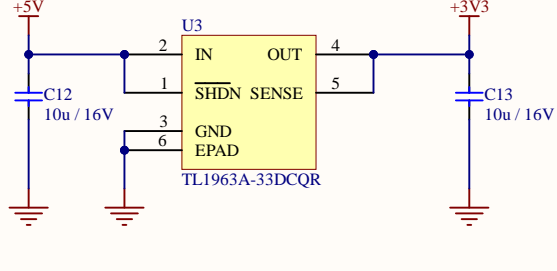
DESIGN NOTE:
Pin 5 (VSS) is not supported.

USER LED

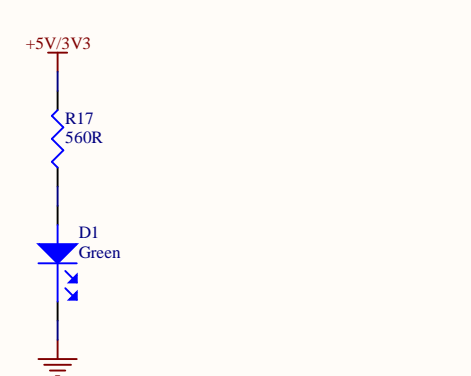


DESIGN NOTE:
This LED is reverse
biased. High = LED OFF
Low = LED ON

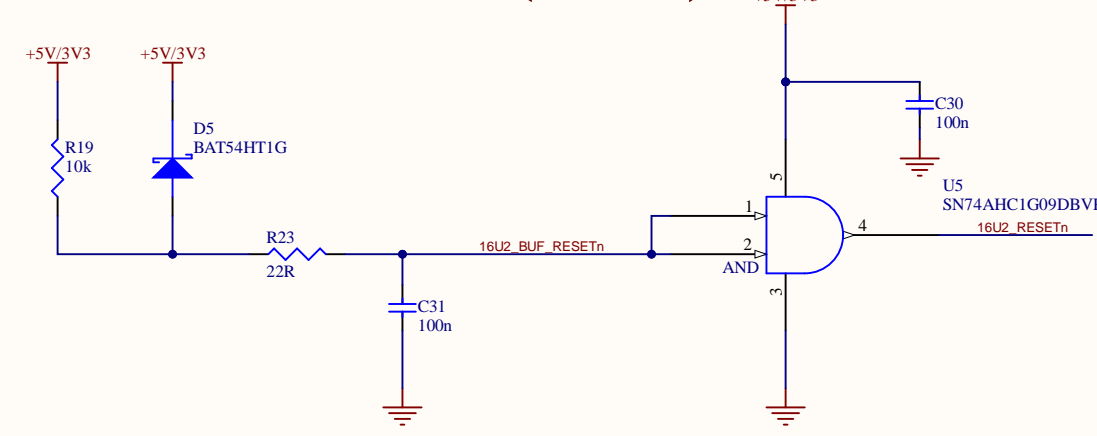
3V3 LDO



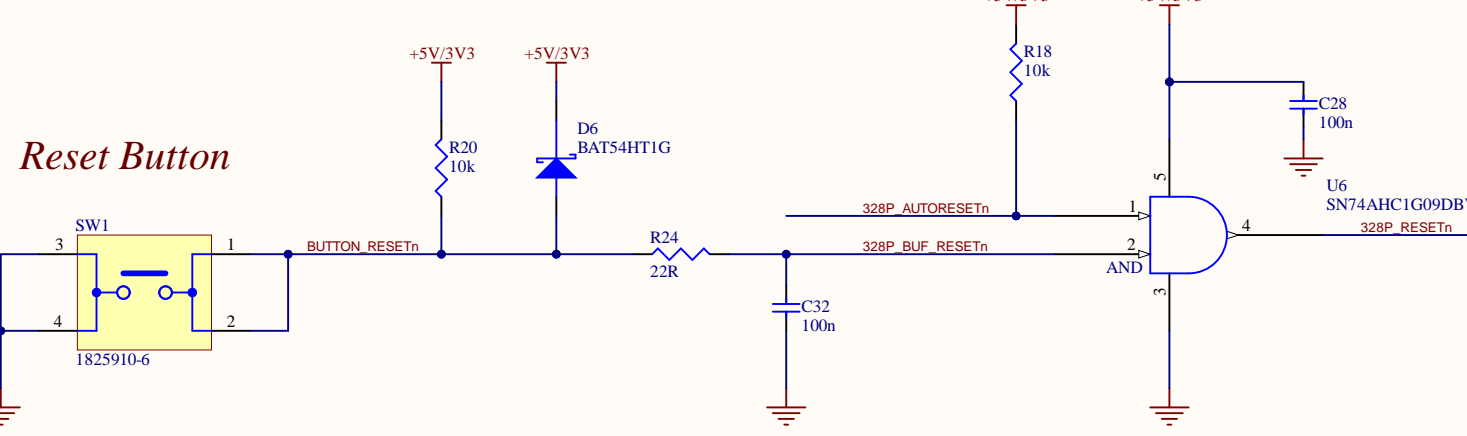
POWER LED



RESET (16U2)



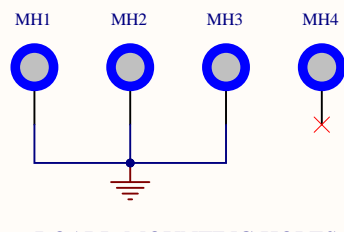
RESET (328P)



DIP SOCKET



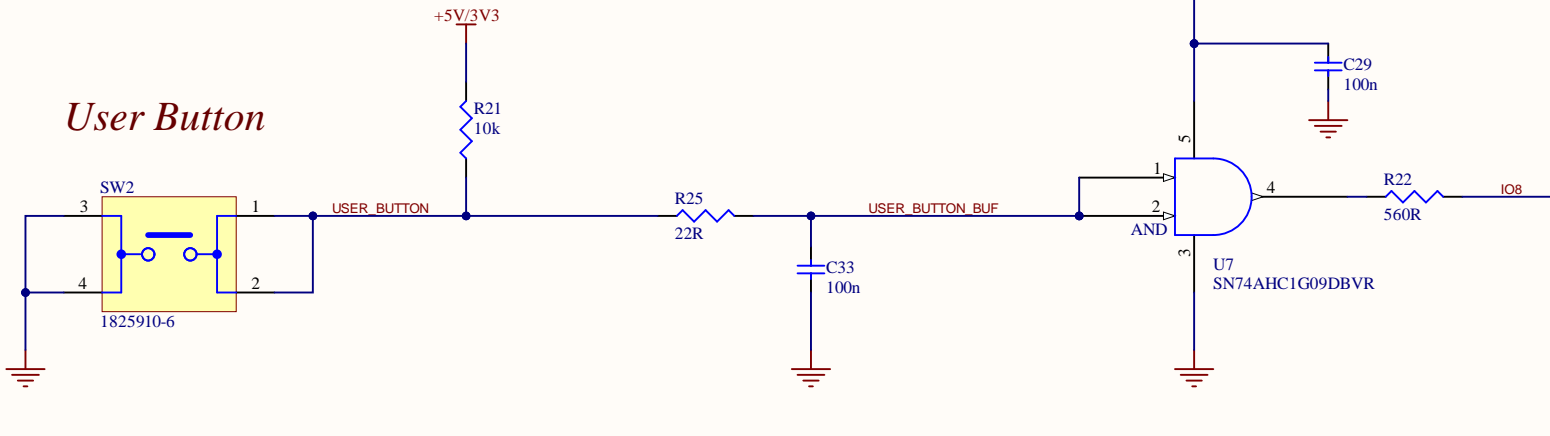
MOUNTING HOLES



FIDUCIALS



USER BUTTON



LAYOUT NOTE:
1) Route all the POWER tracks with minimum track width 0.4mm.
2) Route all the other tracks by 0.4mm and change them by the end of the
design to 0.2mm. To change all of them at once, use the filter "net
R040" and use the "change" and "find" (Ctrl+F) to find the "net
R040" and change it to 0.2mm width in PCB Inspector panel.

DESIGN NOTE:
This board supports 3V or 5V voltage level on the I/O pins.
1) I/O: For everything as defined in this schematic. If not, do not fit this
component.
2) 3.3V I/O: Remove R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, 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