



TELEMETRY DAUGHTER (MEZZANINE) BOARD

Changelog:

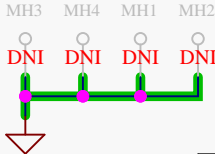
SCHEMATIC Q26042-001 REV A :  
PCB Q25090-001  
NEW DESIGN

SCHEMATIC Q26042-001 REV B :  
PCB Q25090-002  
ADD SOFTWARE RESET ABILITY TO WIFI.  
REMOVE 3.3V CONNECTIONS TO TAG-CONNECT DEBUG PORTS.  
CORRECTED NAME OF SIGNAL SPI1\_CS1.  
ADDED 1500uF ON 5V BUS TO HELP POWER FAIL WARNING TIME.  
REMOVED SDIO INTERFACE OPTION FOR WIFI/BT CHIP.  
ADDED SHUNT AMPLIFIER.  
CHANGED LOCKOUT CIRCUITS TO USE 2N7002 TRANSISTOR.

SCHEMATIC Q26042-001 REV C :  
PCB Q25090-003  
ADD USB CONNECTIONS TO CELL MODEM  
CHANGE MODEM TO QBG95  
CHANGE U7 TO A 6DoF IMU  
UPDATE HWD REV RESISTORS  
I2C\_SA1\_ACCEL\_IMU net is a NC  
R71 and R72 removed  
C21 removed  
Add R84 and R85

SCHEMATIC Q26042-001 REV D :  
PCB Q25090-004  
Remove R20  
Add R78, R80, C56, U14  
Use pin 39 of J8 for the USB VBUS enable

PCB  
BOM Q25090-004  
PCB, Telemetry Board



FID1	FID2	FID3
DNI	DNI	DNI
FID4	FID5	FID6
DNI	DNI	DNI

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	Rev D	Title
	Size: B	TELEMETRY DAUGHTER BD HERCULES INTEGRATED TELEMETRY
	Document Number Q26042-001	Engineer B.PAULSEN
Date: 3/15/2022		Sheet 1 of 5

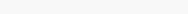
## A



## C



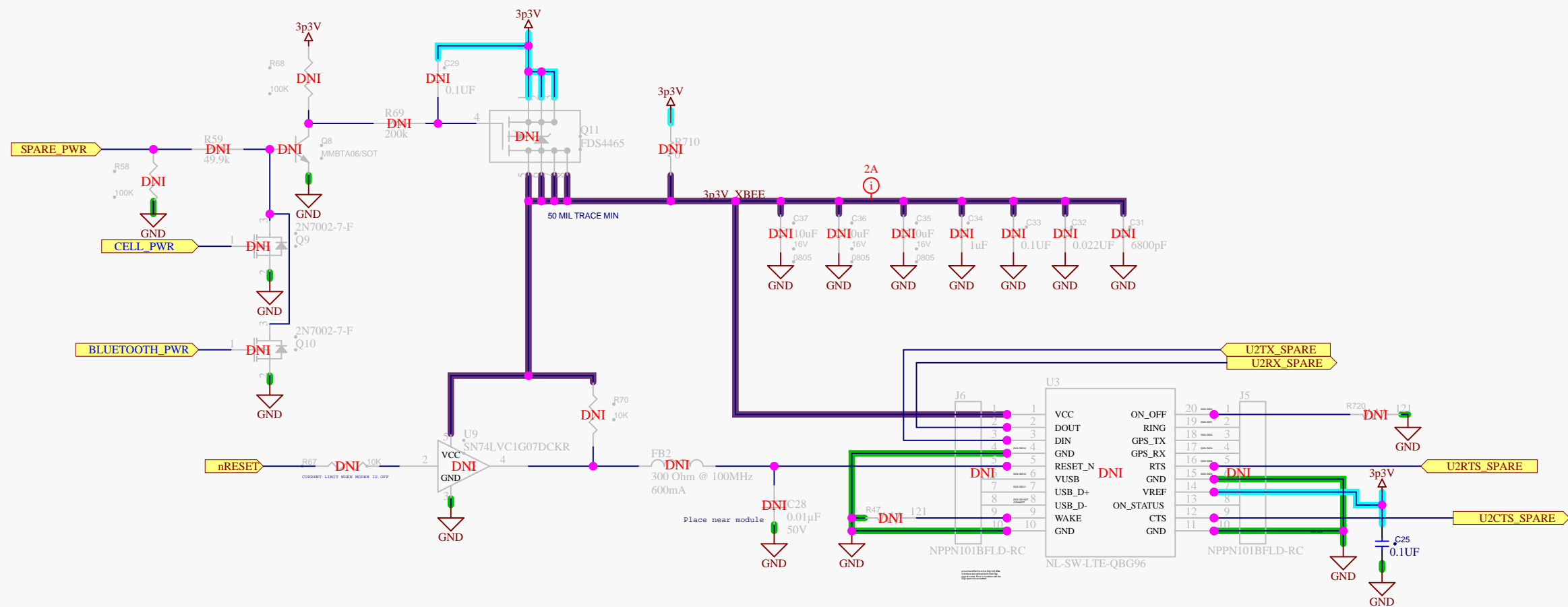
current  
voltage  
Hz

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SPARE RADIO. XBEE FORMAT.



NIMBELINK "SKYWIRE STANDARD INTERFACE". SIMILAR TO DIGI INTL XBEE.  
IF NOT SOLDERED DOWN, USE 2 CONNECTORS 3M 950510-6102-AR.  
ALTERNATE SULLINS NPPN101BFCN-RC  
USE SOCKETS ON PROTO, PRODUCTION IS SOLDERED DOWN

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