



TELEMETRY DAUGHTER (MEZZANINE) BOARD

Changelog:

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

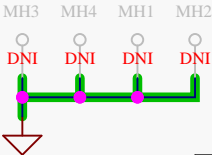
SCHEMATIC Q26042-001 REV B :
PCB Q25090-002
ADD SOFTWARE RESET ABILITY TO WIFI.
REMOVE 3.3V CONNECTIONS TO TAG-CONNECT DEBUG PORTS.
CORRECTED NAME OF SIGNAL SPI1_CS1.
ADDED 1500uF ON 5V BUS TO HELP POWER FAIL WARNING TIME.
REMOVED SDIO INTERFACE OPTION FOR WIFI/BT CHIP.
ADDED SHUNT AMPLIFIER.
CHANGED 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
Update REV bits

SCHEMATIC Q26042-001 REV E :
PCB Q25090-005
DFM updates

PCB Q25090-005
BOM PCB, Telemetry Board



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

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	Size: B	TELEMETRY DAUGHTER BD		
		HERCULES INTEGRATED TELEMETRY		
		Document Number Q26042-001		Engineer B.PAULSEN
		Date: 3/13/2023		Sheet 1 of 5



A



C



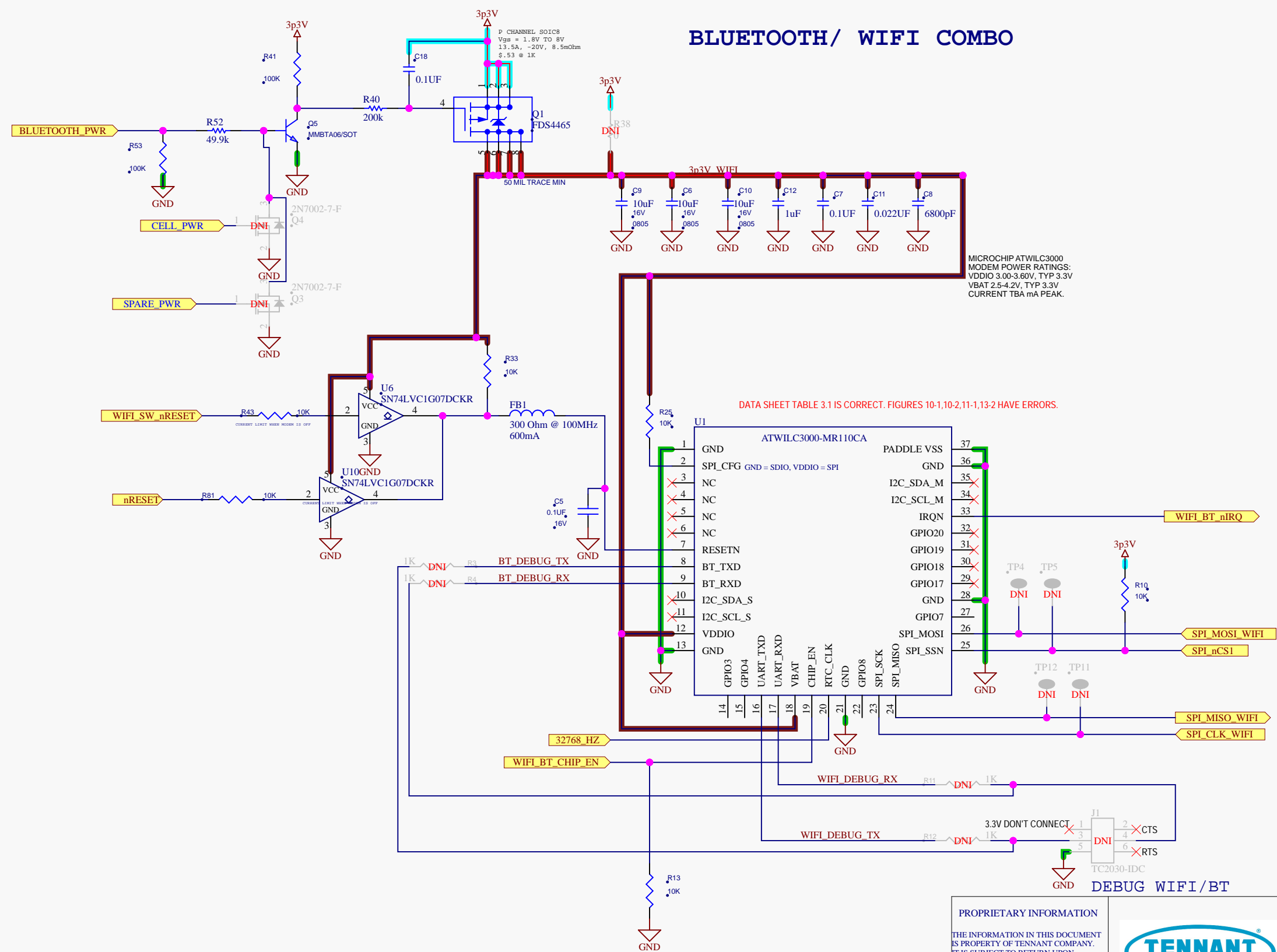
current
voltage
Hz

3

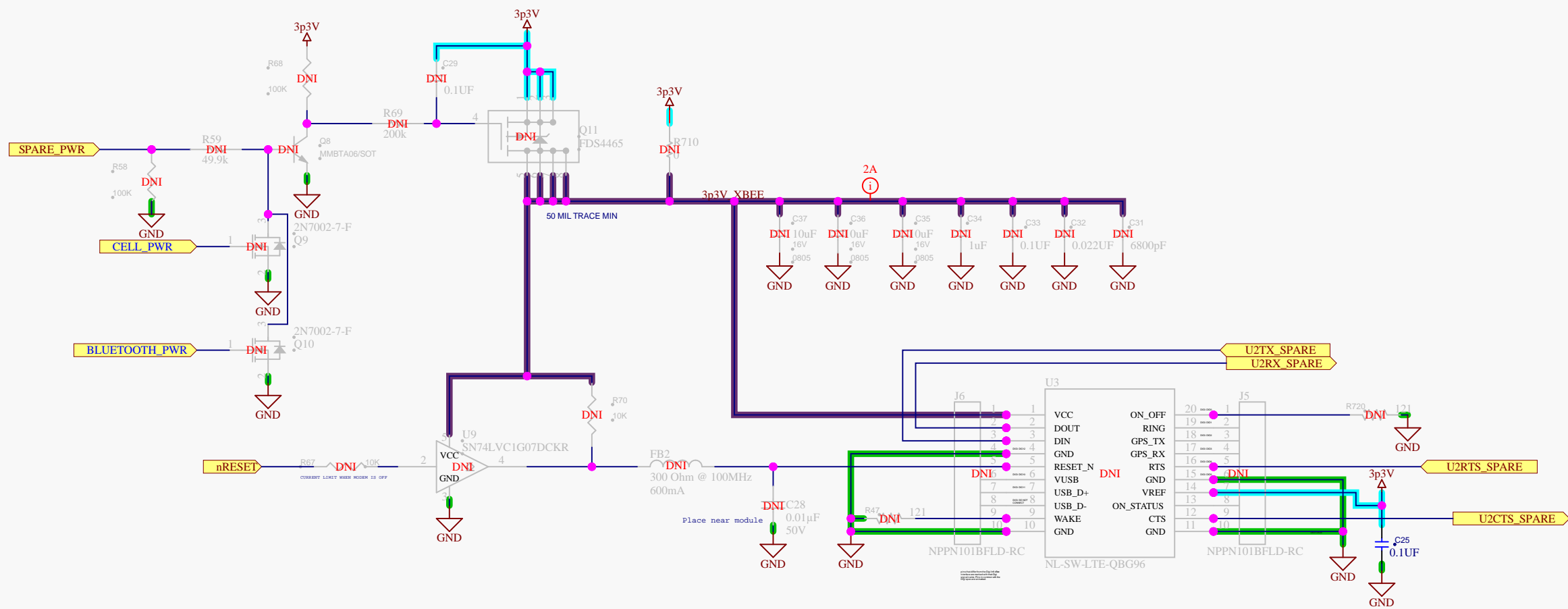
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BLUETOOTH/ WIFI COMBO



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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