



SMALL EMERGE COMMON USER INTERFACE

Changelog:

SCN Q26038-001 REV A :
Based off Q26034-003 Design.
PCB Q25086-001

SCN Q26038-001 REV B :
PCB Q25086-002

CHANGE HARDWARE REV BITS TO 0001.
CHANGE LCD CONNECTOR TO OMRON.
SWAP SPIO_MISO AND SPIO_MOSI.
DELETE CLK RESISTOR ON SD CARD SLOT.
CHANGE CONNECTOR REFERENCE DESIGNATORS TO MATCH 7600 INTEGRATED TELEMETRY BOARD.
SWAP RXD AND TXD ON USBG SERIAL CONNECTOR. OMIT 3.3V CONNECTION THERE.
FIX NAME SWAP SPI1_CS0 AND SPI1_CS1.
CHANGE TELEMETRY CONNECTOR PIN 13 TO WIFI SOFTWARE RESET.
CHANGE LCD SIGNAL RESISTOR PACKS TO DISCRETE 0402's.
DELETE OPTION FOR SDIO WIFI INTERFACE.
ADD RTC_INT1 TO A GPIO4 PIN FREED UP FROM SDIO WIFI INTERFACE.
ADD A/C INPUTS FROM SHUNT SMD ON TELM SD.
CHANGED PULLUP RESISTOR ON 32768HZ CLOCK TO 10K.
ADDED DIGITAL MONITORING OF KEYSWITCH AND CHARGER POWER AND SYSTEM_UP.
MOVED SPARE RADIO POWER SIGNAL.
CHANGED LED DIODES TO ES1 TO LOWER COST.
CHANGED C193 FROM 470 TO 1500UF.
CHANGED R6 BACK TO 10K.

SCN Q26038-001 REV C :
PCB Q25086-003

CHANGE HARDWARE REV BITS TO 002
DELETE R159 SERIES RESISTOR ON AL5.
ADD C343-C346 ON KEYPAD INPUTS FOR NOISE SUPPRESSION.
REMOVE FRAM OPTION. ADD INFINEON TPM IC.
ADD D30-D32 IN POWER FALL CKTS.

SCN Q26038-001 REV D :
PCB Q25086-004 / Q25086-005

Replace membrane connectors with 1mm pitch 22 ckt ZIF connectors
Add 237 ohm 0402 resistors to the membrane page
Update REV bits

SCN Q25086-001 REV E :
PCB Q25086-006

Add B2
Add R287

SCN Q26038-001 REV F :
Depop B1 and R130
Populate B2 and R287

SCN Q25086-SCN REV G :
PCB Q25086-PCB REV G

Change naming convention to Qxxxx-SCN/PCB revX
Populate R169, R170, R171 and Depop R174, R171, R168 to update HW bits to REV 4
Swap U7 and U17 to Q19071-005
Swap U15 and U17 to Q19080-012
Swap R37, R142, R155, R167 to Q10015-289
Add D33 and D34
Add C347, C348, C349, C350, C351
Add R3, R74, R159, R215, R288, R289, R290, R291, R292, R293, R294, R295
Add U39, U40, U41, U42, U43

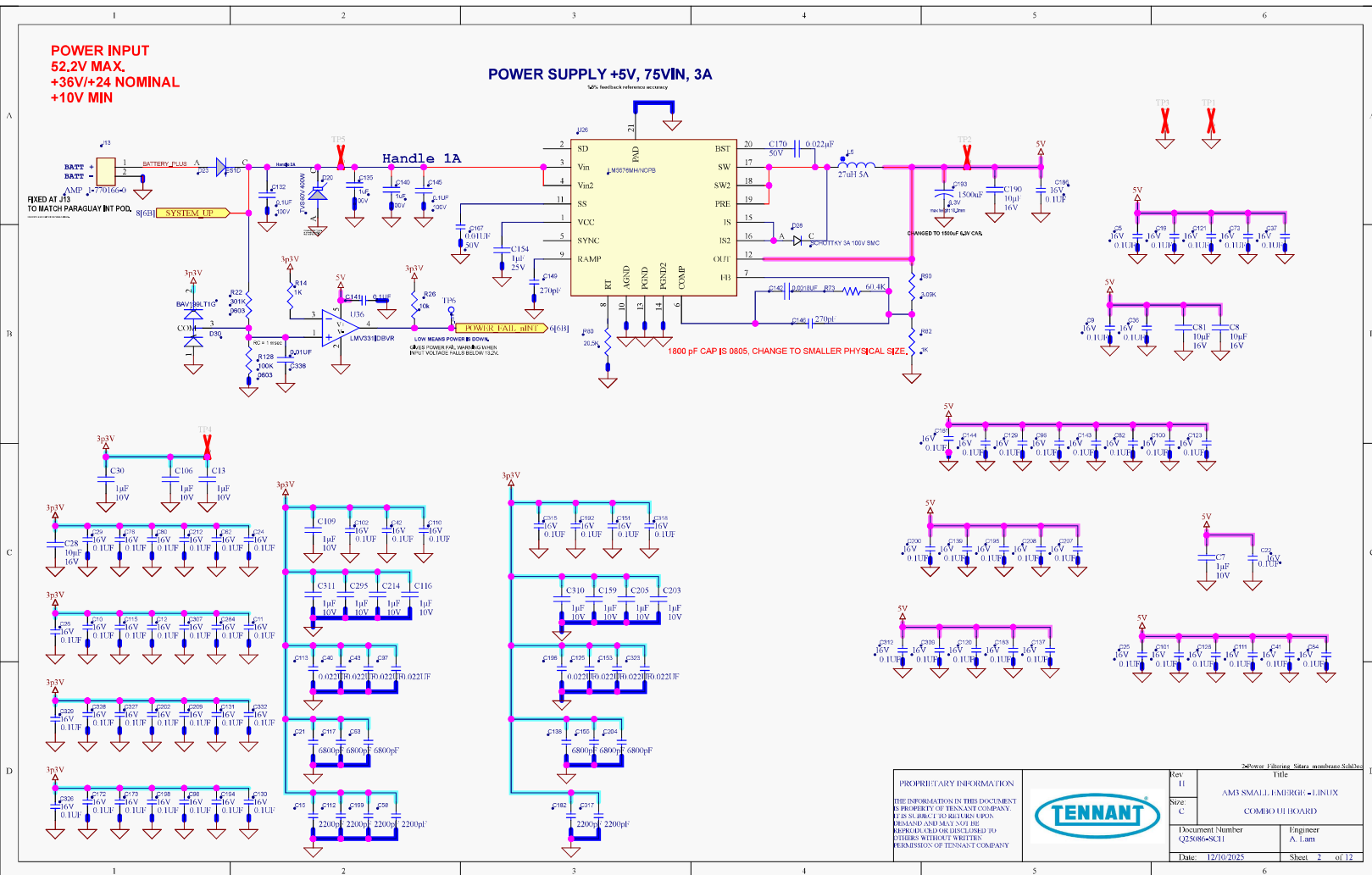
SCN Q25086-SCN REV H :
Change R3 & R291 to 237k
Change R74 & R215 to 40.2k

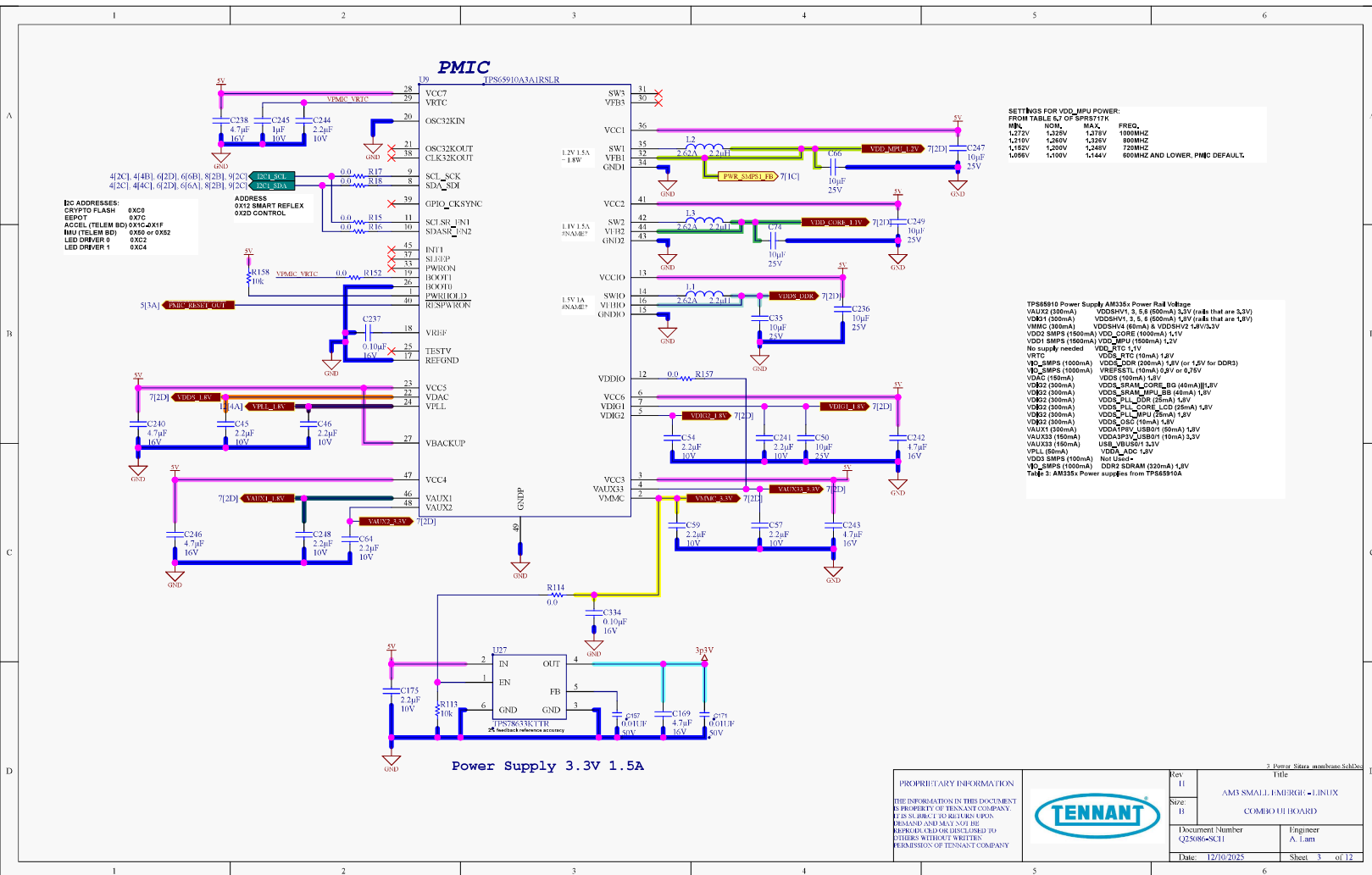
PART NUMBERS FOR REFERENCE ONLY:
PRINTED CIRCUIT ASSEMBLY 1244465

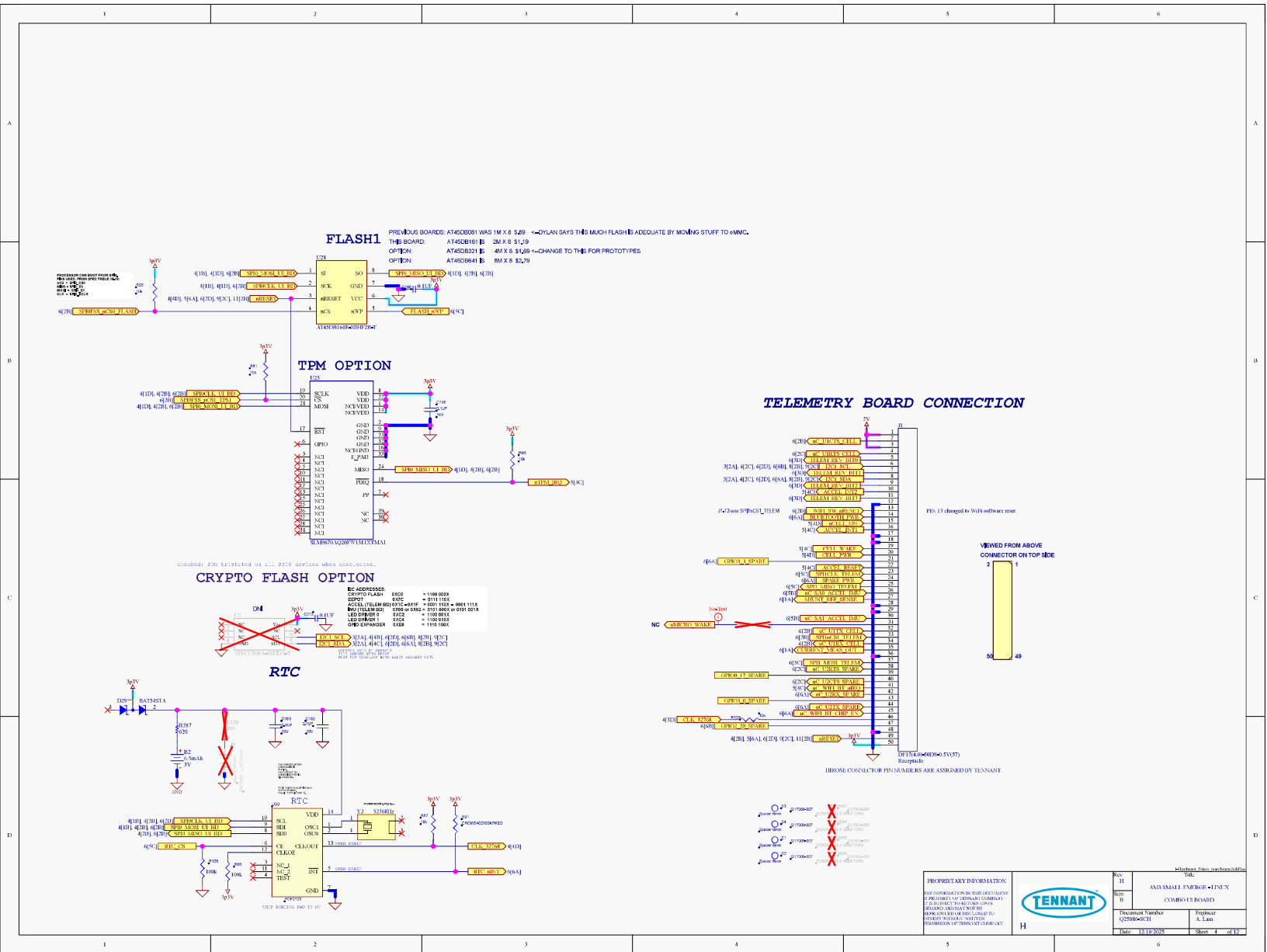
X BOM
X WAREHOUSE IMAGE Q20106-001
X WAREHOUSE LOADER Q20106-001
X PCB Q25086-PCB revG
X SCHEMATIC Q25086-PCB revG

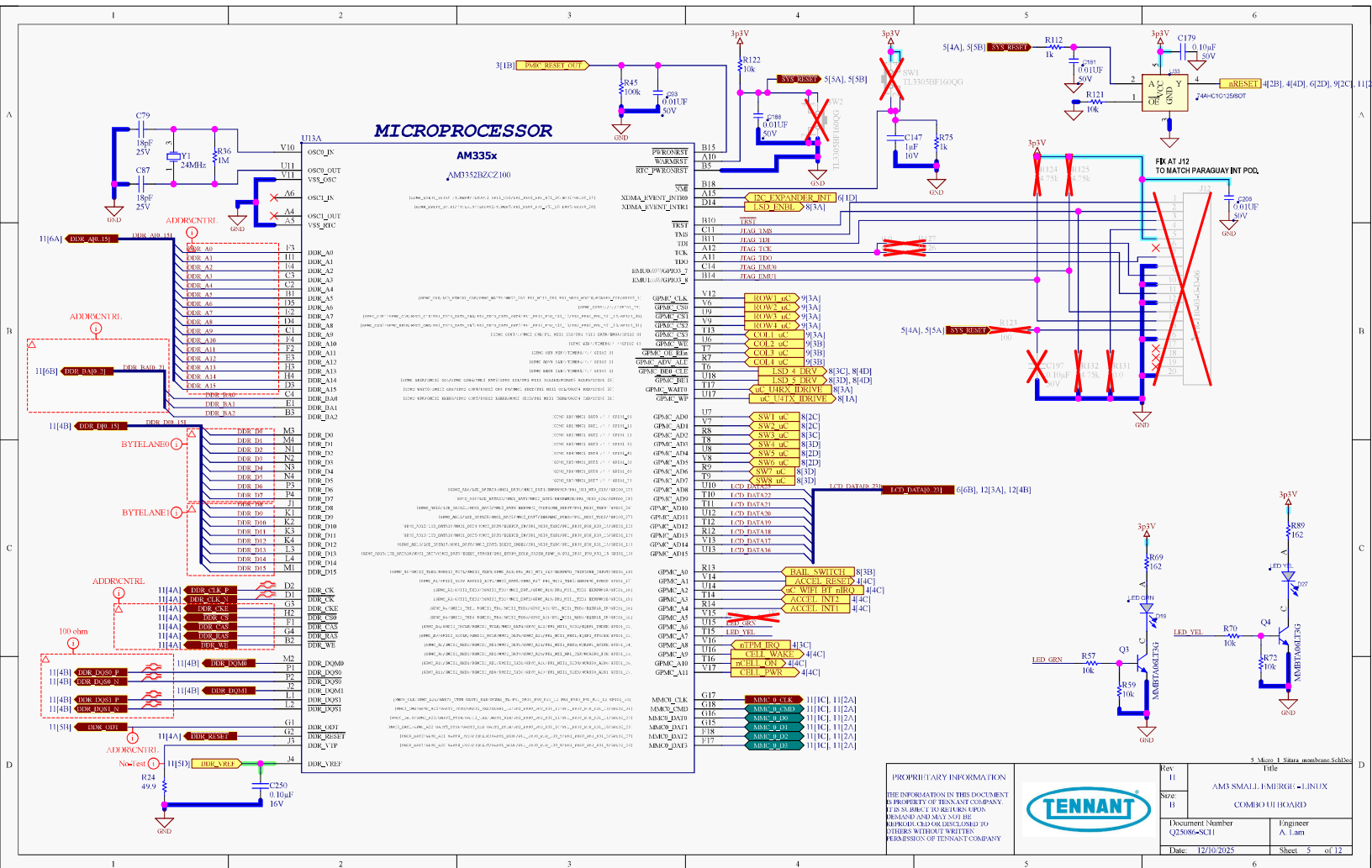
M03 M04 M05 M06
0000 0000 0000 0000
R01 R02 R03 R04 R05 R06
X X X X X X X X X X

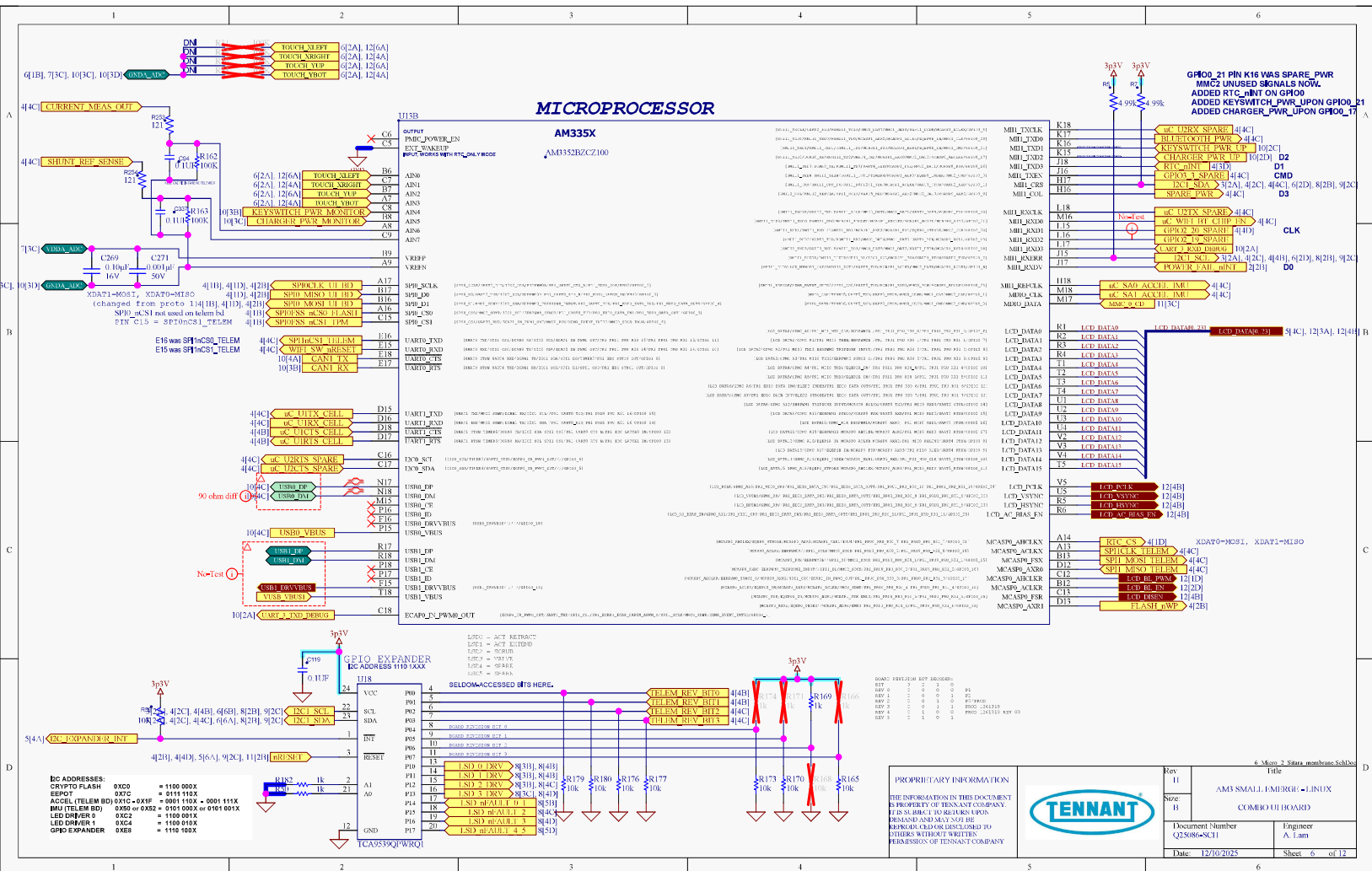
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		Size H	COMMON UI BOARD	
		Document Number Q25086-SCN		Engineer A. Lam
		Date: 12/10/2025		Sheet 1 of 12

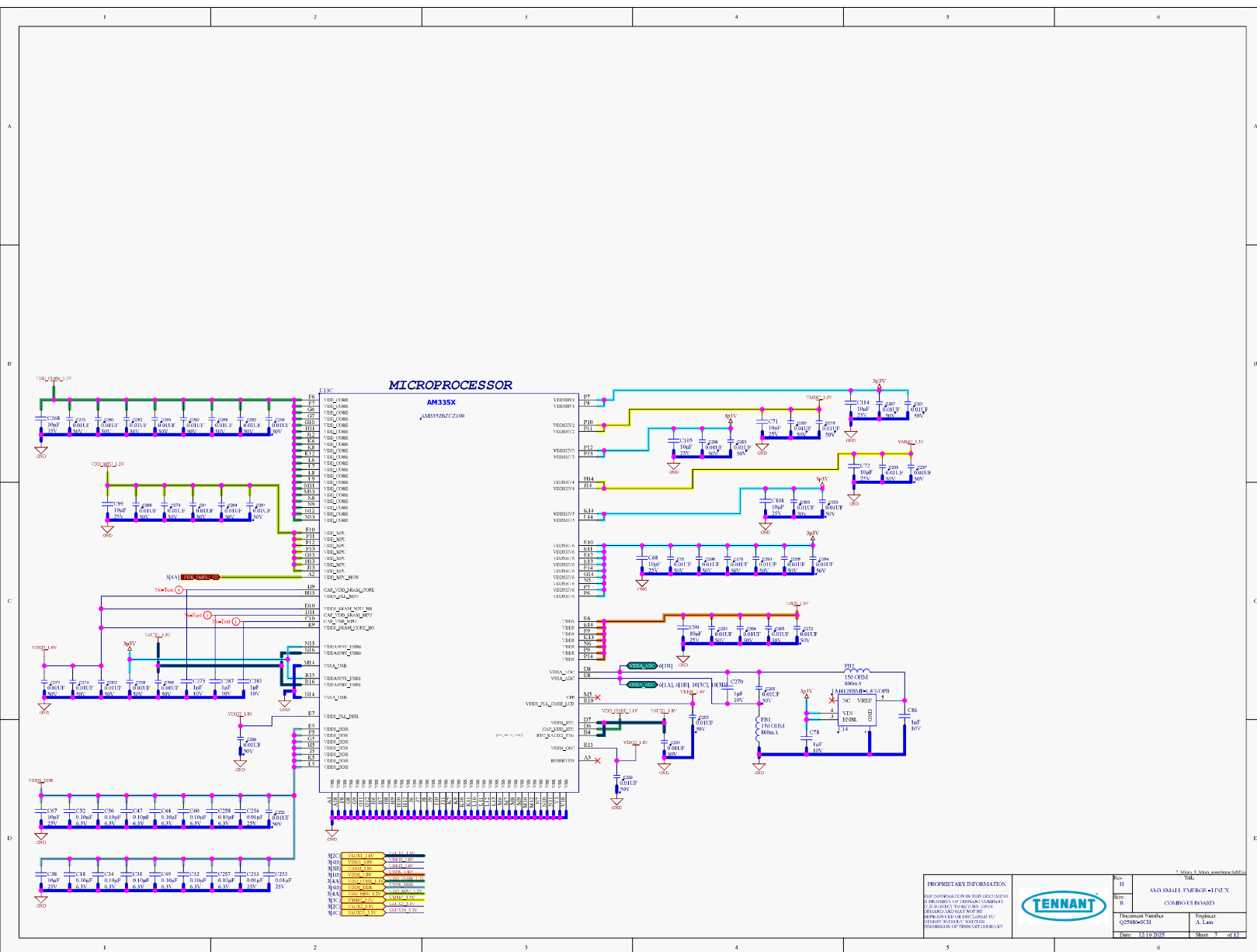


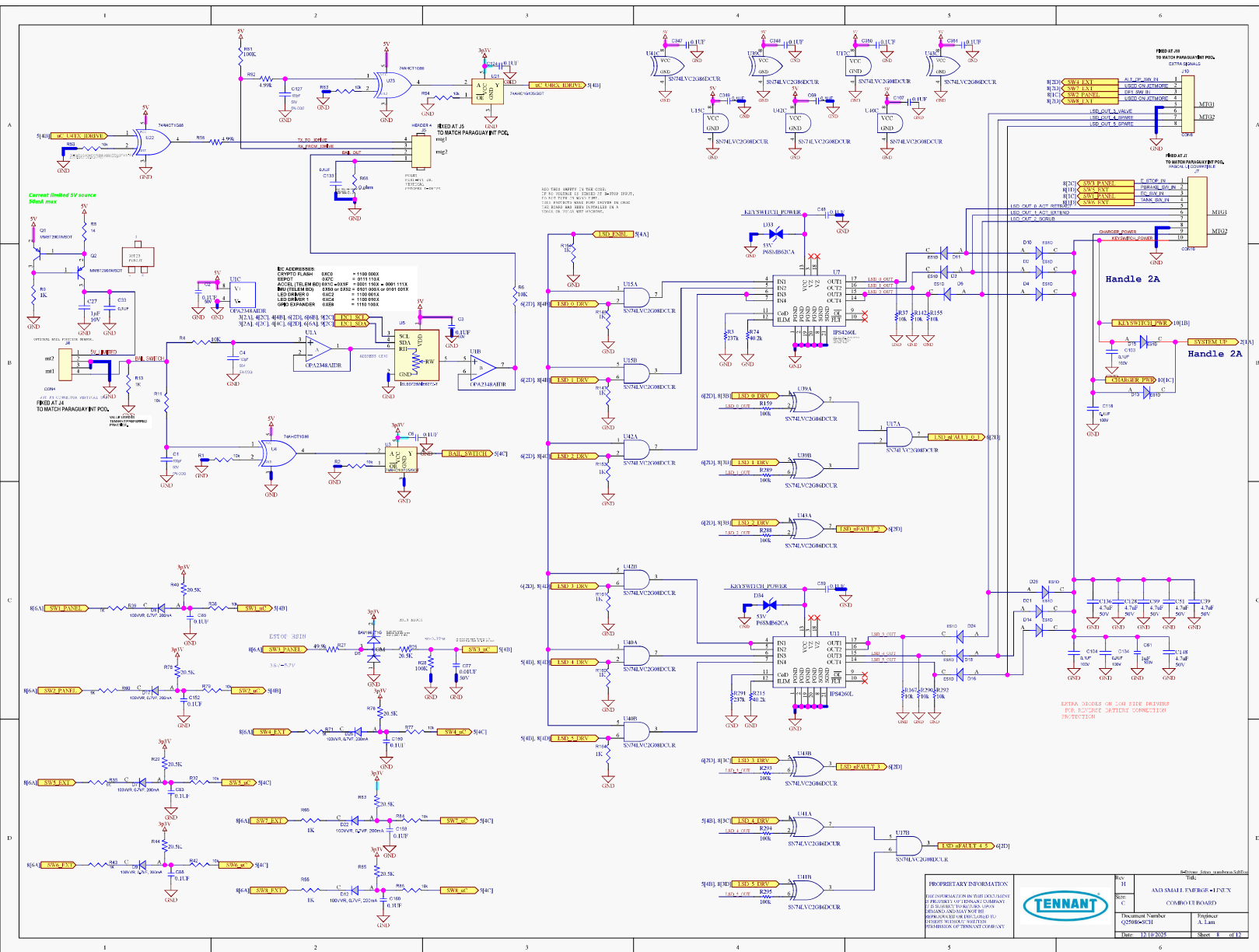






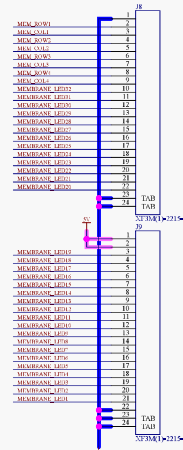
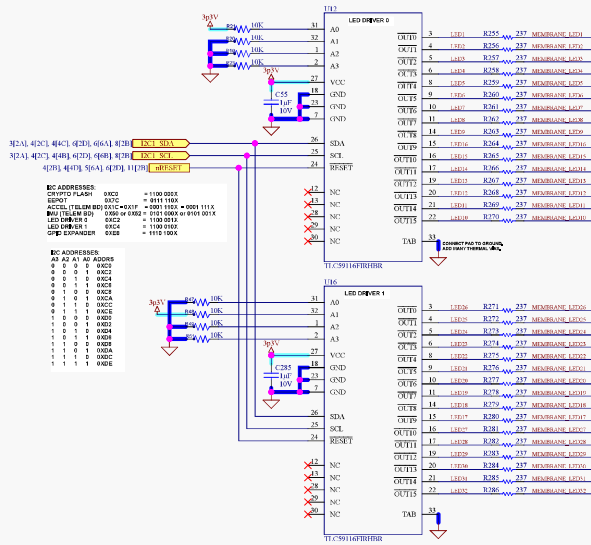
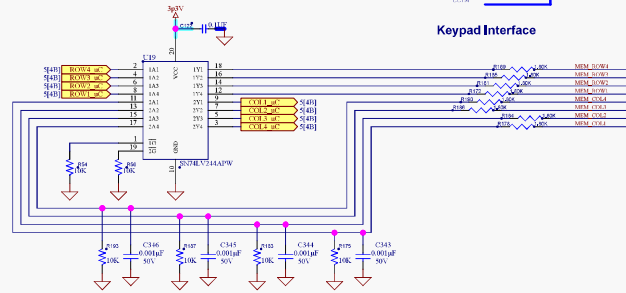
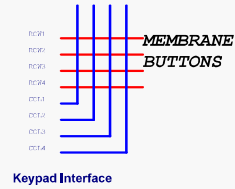




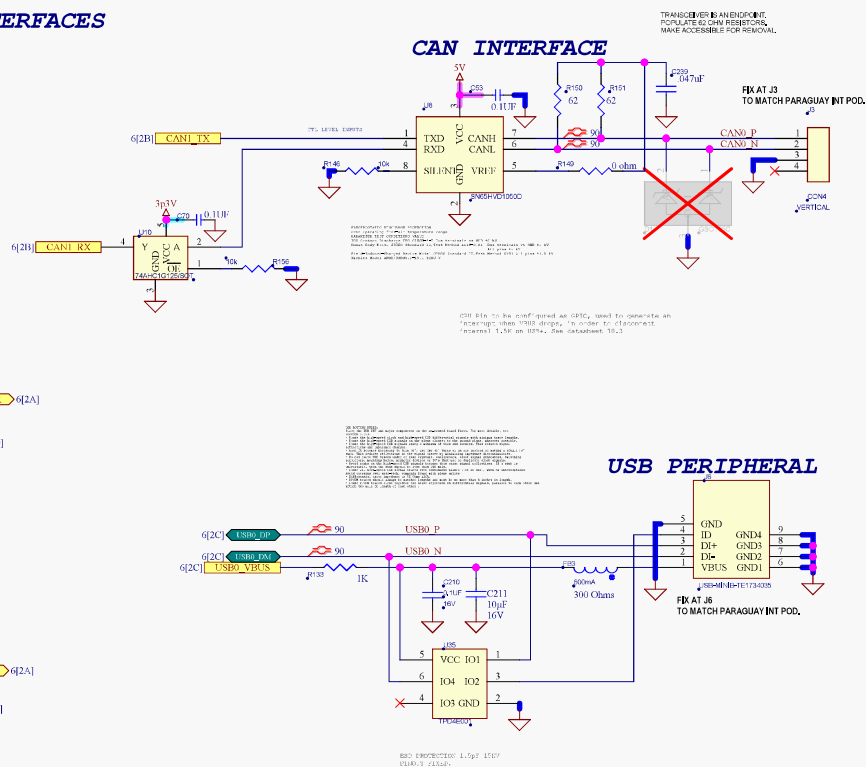
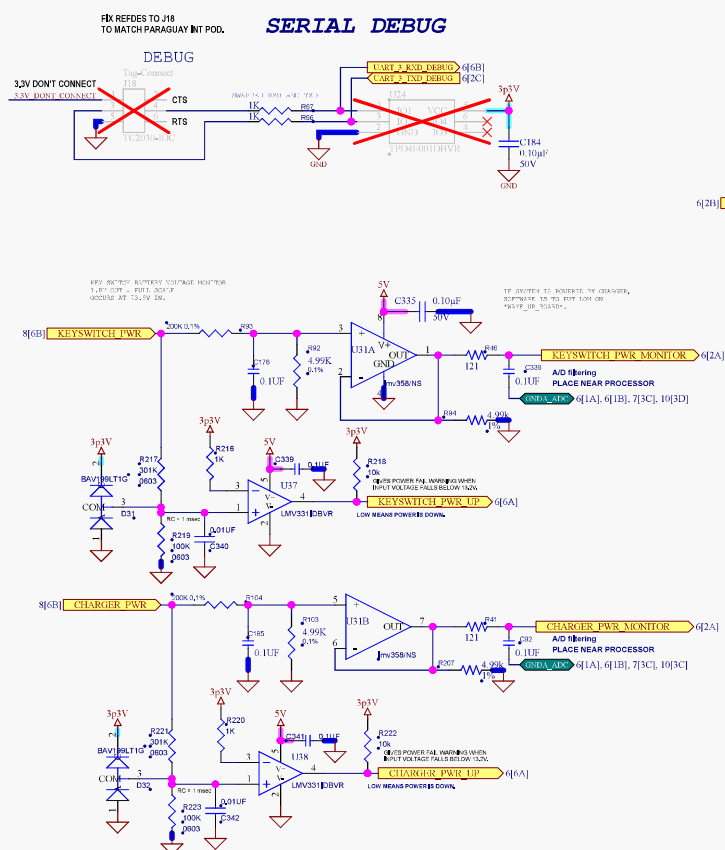


Keypad & LED interfaces

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INTERFACES

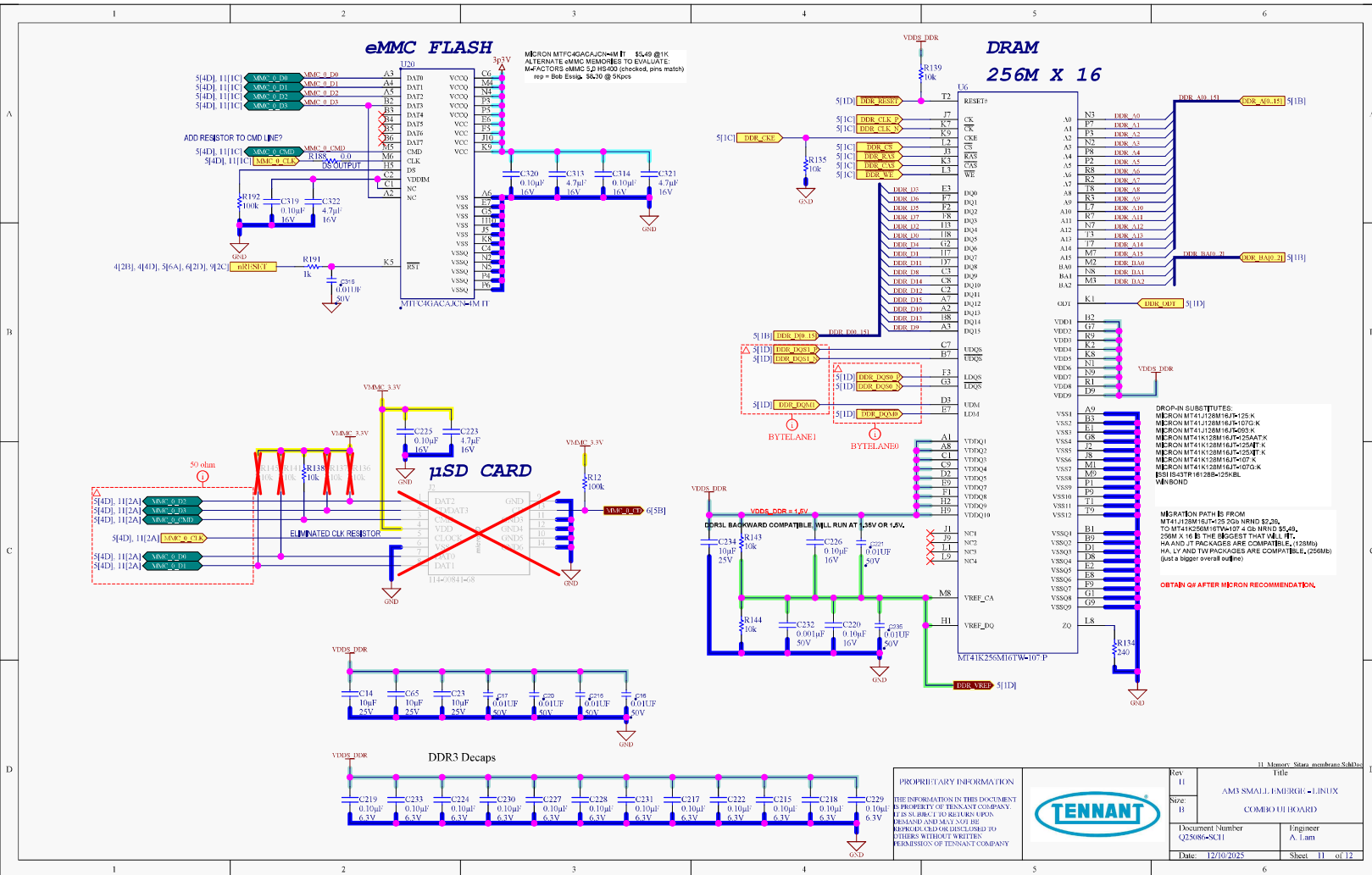


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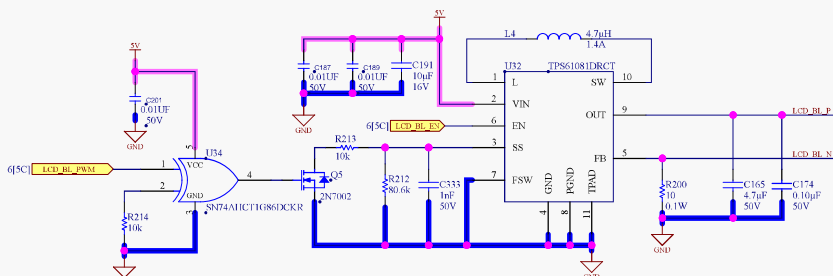
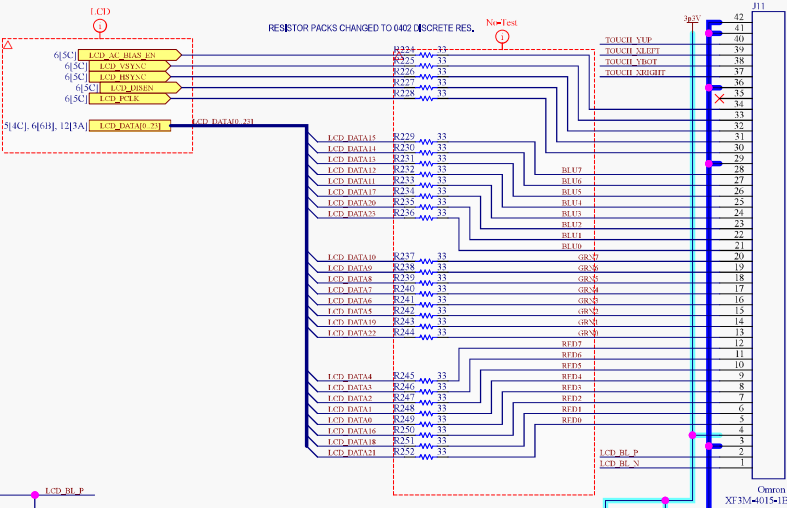
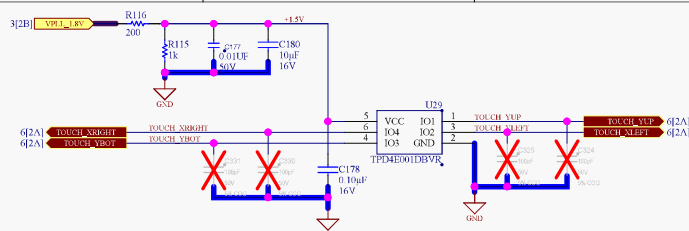
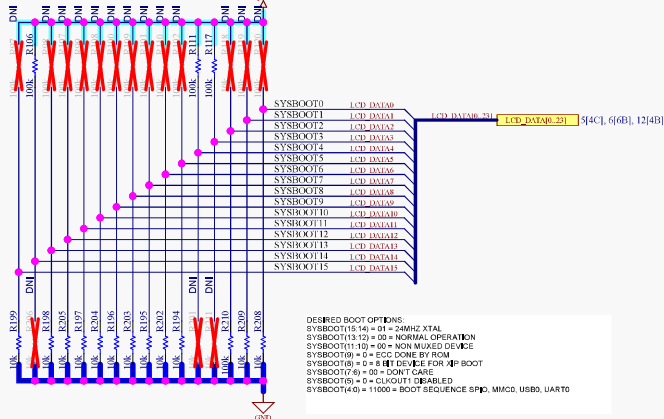
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Rev II	Title AM3 SMALL EMERGE - LINUX COMBO UI BOARD	
Size: B		
Document Number Q25086-SC11		Engineer A. Lam
Date: 12/10/2025		Sheet 10 of 12



BOOT OPTIONS



PROPRIETARY INFORMATION		Rev: 11	Title	
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		Size: B	COMBO UI BOARD	
		Document Number: Q24686-SC11	Engineer: A. Lam	
		Date: 12/10/2025	Sheet: 12 of 12	



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