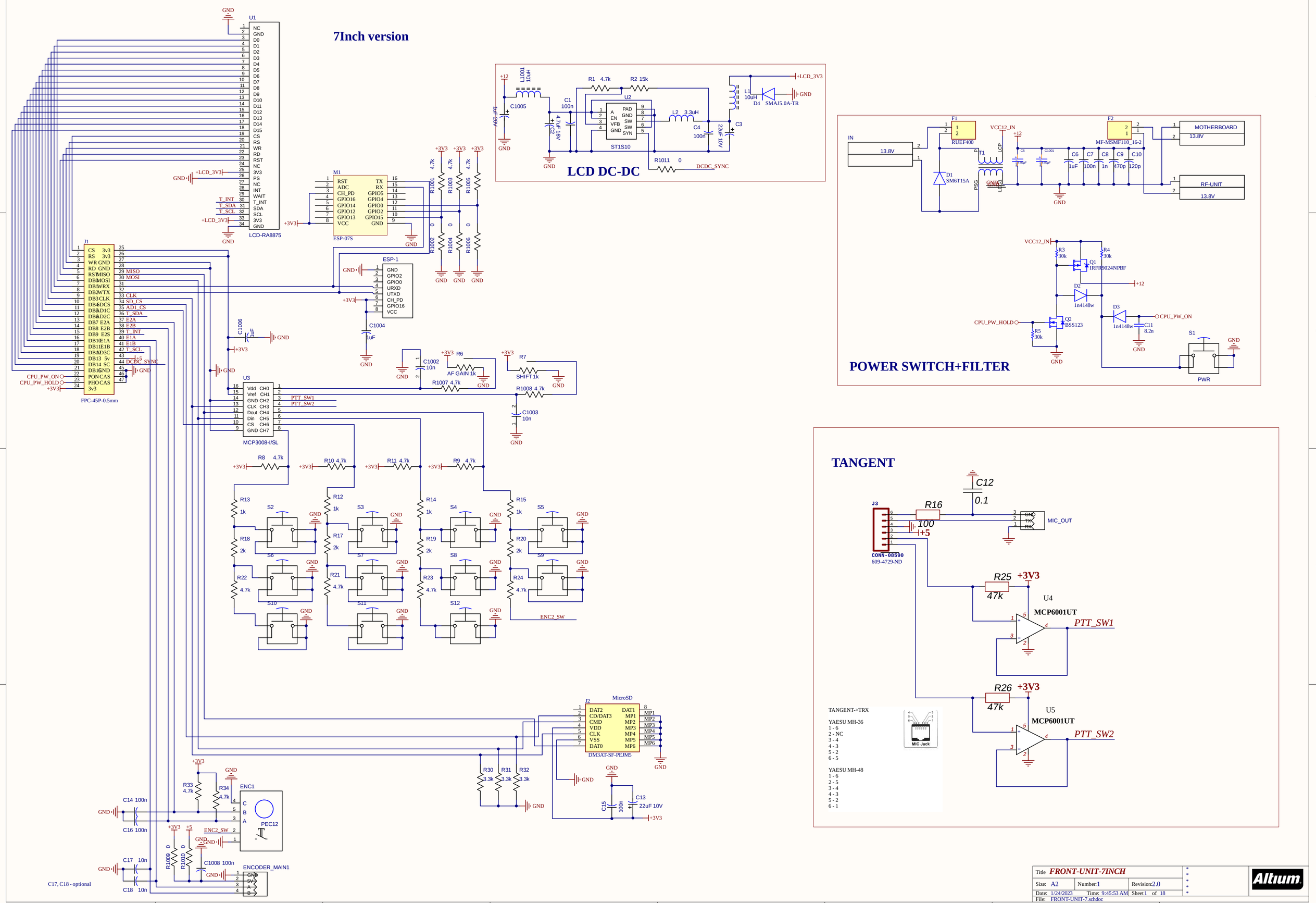
7Inch version
U1
LCD-RA8875
J1
FPC-45P-0.5mm
M1
ESP-07S
ESP-1
LCD DC-DC
U2
ST1S10
L1001 10uH
R1 4.7k
R2 15k
C1005 1uF 20V
C1 100n
C2 4.7uF 16V
L2 3.3uH
C4 100n
C3 22uF 10V
L1 10uH
D4 SMAJ5.0A-TR
+LCD_3V3
R1011 0
DCDC_SYNC
POWER SWITCH+FILTER
F1
RUEF400
F2
MF-MSMF110_16-2
MOTHERBOARD
13.8V
RF-UNIT
13.8V
D1 SM6T15A
T1
C6 1uF
C7 100n
C8 1n
C9 470p
C10 120p
VCC12_IN
R3 30k
R4 30k
Q1 IRFR9024NPBF
D2 1n4148w
D3 1n4148w
Q2 BSS123
R5 30k
C11 8.2n
CPU_PW_HOLD
CPU_PW_ON
S1
PWR
U3
MCP3008-I/SL
R6 AF GAIN 1k
R7 SHIFT 1k
R8 4.7k
R9 4.7k
R10 4.7k
R11 4.7k
R12 1k
R13 1k
R14 1k
R15 1k
R17 2k
R18 2k
R19 2k
R20 2k
R21 4.7k
R22 4.7k
R23 4.7k
R24 4.7k
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
ENC2_SW
J2
MicroSD
DM3AT-SF-PEJM5
R30 3.3k
R31 3.3k
R32 3.3k
C13 22uF 10V
C15 100n
ENC1
PEC12
C14 100n
C16 100n
C17 10n
C18 10n
C17, C18 - optional
R33 4.7k
R34 4.7k
R1009 0
R1010 0
C1008 100n
ENCODER_MAIN1
TANGENT
J3
CONN-08590
609-4729-ND
R16 100
C12 0.1
MIC_OUT
R25 47k
R26 47k
U4
U5
MCP6001UT
PTT_SW1
PTT_SW2
TANGENT->TRX
YAESU MH-36
1 - 6
2 - NC
3 - 4
4 - 3
5 - 2
6 - 5
YAESU MH-48
1 - 6
2 - 5
3 - 4
4 - 3
5 - 2
6 - 1
MIC Jack
Title FRONT-UNIT-7INCH
Size: A2
Number:1
Revision:2.0
Date: 1/24/2023
Time: 9:45:53 AM
Sheet 1 of 18
File: FRONT-UNIT-7.schdoc
Altium