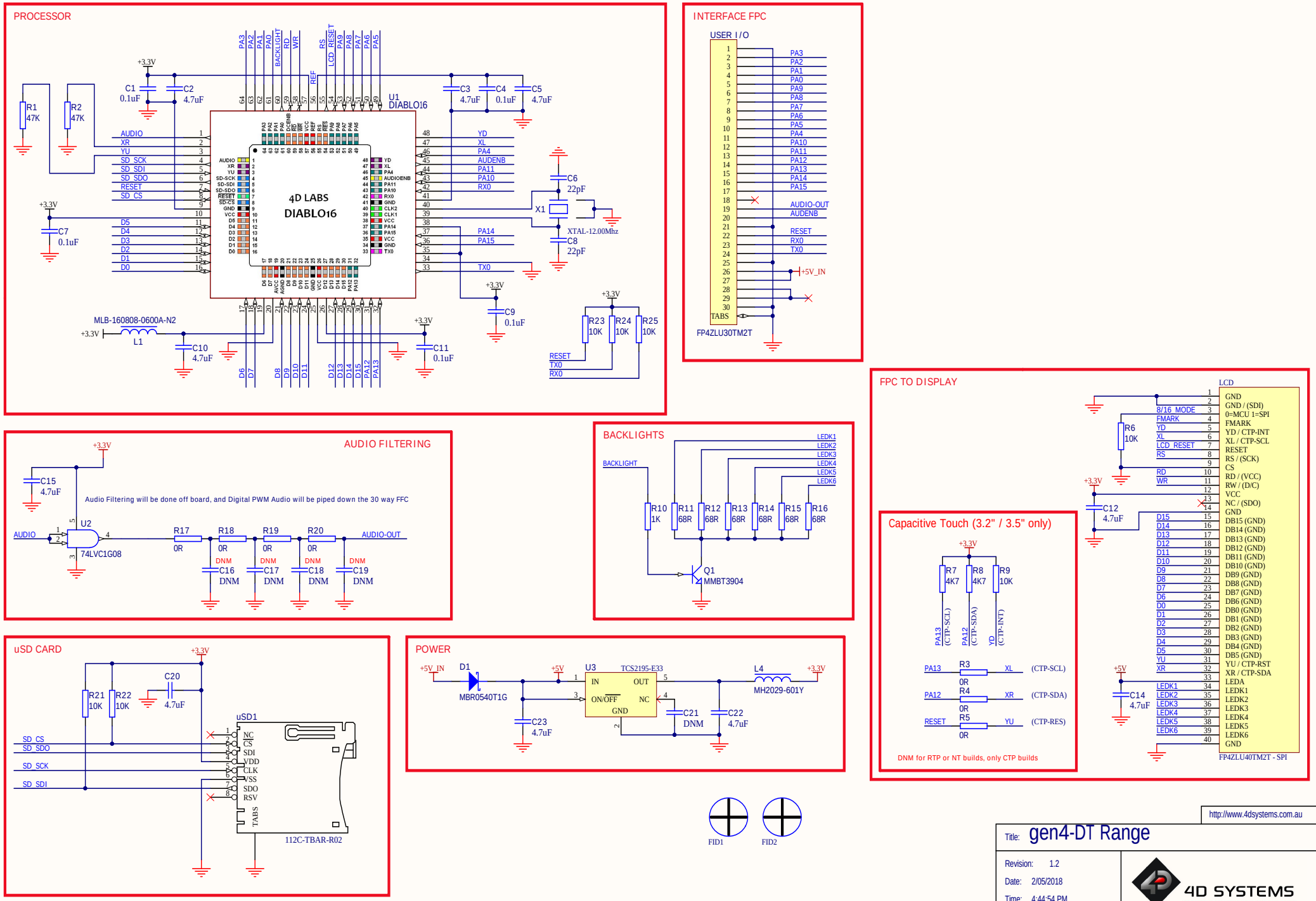
PROCESSOR
U1
DIABLO16
4D LABS
DIABLO16
R1
47K
R2
47K
C1
0.1uF
C2
4.7uF
C3
4.7uF
C4
0.1uF
C5
4.7uF
C6
22pF
C8
22pF
X1
XTAL-12.00Mhz
C7
0.1uF
C9
0.1uF
C10
4.7uF
C11
0.1uF
MLB-160808-0600A-N2
L1
R23
10K
R24
10K
R25
10K
AUDIO
XR
YU
SD_SCK
SD_SDI
SD_SDO
RESET
SD_CS
D5
D4
D3
D2
D1
D0
YD
XL
PA4
AUDENB
PA11
PA10
RX0
PA14
PA15
TX0
INTERFACE FPC
USER I/O
FP4ZLU30TM2T
AUDIO-OUT
+5V_IN
AUDIO FILTERING
Audio Filtering will be done off board, and Digital PWM Audio will be piped down the 30 way FFC
U2
74LVC1G08
C15
4.7uF
R17
0R
R18
0R
R19
0R
R20
0R
DNM
C16
DNM
C17
DNM
C18
DNM
C19
DNM
BACKLIGHTS
BACKLIGHT
R10
1K
R11
68R
R12
68R
R13
68R
R14
68R
R15
68R
R16
68R
LEDK1
LEDK2
LEDK3
LEDK4
LEDK5
LEDK6
Q1
MMBT3904
FPC TO DISPLAY
LCD
FP4ZLU40TM2T - SPI
R6
10K
C12
4.7uF
C14
4.7uF
Capacitive Touch (3.2" / 3.5" only)
R7
4K7
R8
4K7
R9
10K
PA13 (CTP-SCL)
PA12 (CTP-SDA)
YD (CTP-INT)
R3
R4
R5
(CTP-SCL)
(CTP-SDA)
(CTP-RES)
DNM for RTP or NT builds, only CTP builds
uSD CARD
uSD1
112C-TBAR-R02
R21
10K
R22
10K
C20
4.7uF
SD_CS
SD_SDO
SD_SCK
SD_SDI
POWER
D1
MBR0540T1G
U3
TCS2195-E33
IN
OUT
ON/OFF
NC
GND
C23
4.7uF
C21
DNM
C22
4.7uF
L4
MH2029-601Y
FID1
FID2
http://www.4dsystems.com.au
Title: gen4-DT Range
Revision: 1.2
Date: 2/05/2018
Time: 4:44:54 PM
4D SYSTEMS
TURNING TECHNOLOGY INTO ART
File: Gen4-DT-REV1.2.SchDoc