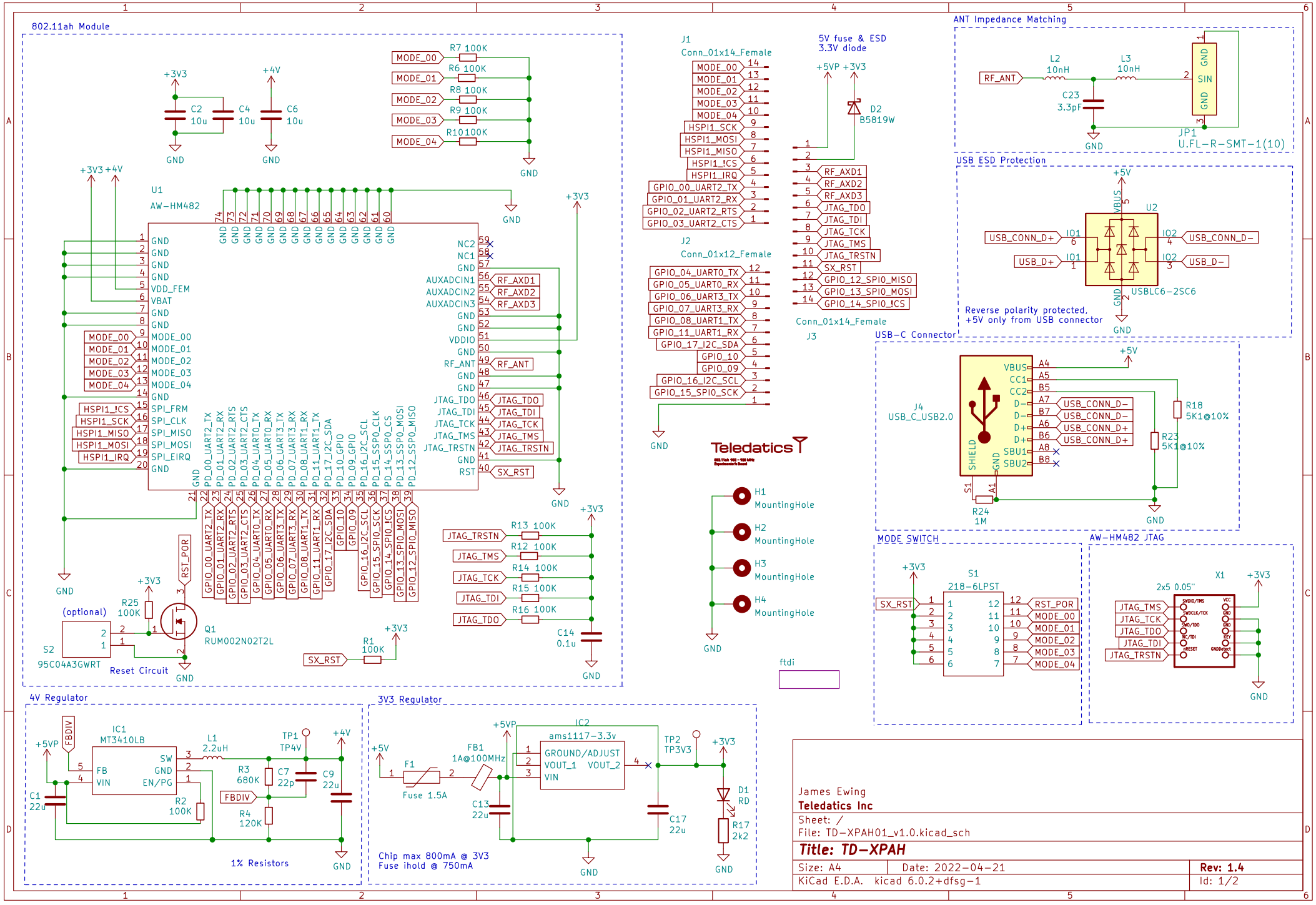
802.11ah Module
U1
AW-HM482
+3V3
+4V
C2 10u
C4 10u
C6 10u
GND
R7 100K
R6 100K
R8 100K
R9 100K
R10 100K
MODE_00
MODE_01
MODE_02
MODE_03
MODE_04
VDD_FEM
VBAT
SPI_FRM
SPI_CLK
SPI_MISO
SPI_MOSI
SPI_EIRQ
HSPI1_!CS
HSPI1_SCK
HSPI1_MISO
HSPI1_MOSI
HSPI1_IRQ
RF_AXD1
RF_AXD2
RF_AXD3
RF_ANT
JTAG_TDO
JTAG_TDI
JTAG_TCK
JTAG_TMS
JTAG_TRSTN
SX_RST
VDDIO
RST_POR
R25 100K
(optional)
S2
95C04A3GWRT
Q1
RUM002N02T2L
Reset Circuit
R1 100K
R13 100K
R12 100K
R14 100K
R15 100K
R16 100K
C14 0.1u
J1
Conn_01x14_Female
J2
Conn_01x12_Female
5V fuse & ESD
3.3V diode
+5VP
D2
B5819W
J3
Conn_01x14_Female
H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole
Teledatics
ftdi
ANT Impedance Matching
L2 10nH
L3 10nH
C23 3.3pF
JP1
U.FL-R-SMT-1(10)
USB ESD Protection
U2
USBLC6-2SC6
USB_CONN_D+
USB_CONN_D-
USB_D+
USB_D-
Reverse polarity protected,
+5V only from USB connector
USB-C Connector
J4
USB_C_USB2.0
R18 5K1@10%
R23 5K1@10%
R24 1M
MODE SWITCH
S1
218-6LPST
AW-HM482 JTAG
X1
2x5 0.05"
4V Regulator
IC1
MT3410LB
L1 2.2uH
TP1
TP4V
R3 680K
C7 22p
C9 22u
R2 100K
R4 120K
C1 22u
1% Resistors
3V3 Regulator
IC2
ams1117-3.3v
GROUND/ADJUST
VOUT_1
VOUT_2
VIN
F1
Fuse 1.5A
FB1
1A@100MHz
C13 22u
TP2
TP3V3
C17 22u
D1
RD
R17 2k2
Chip max 800mA @ 3V3
Fuse ihold @ 750mA
James Ewing
Teledatics Inc
Sheet: /
File: TD-XPAH01_v1.0.kicad_sch
Title: TD-XPAH
Size: A4
Date: 2022-04-21
Rev: 1.4
KiCad E.D.A. kicad 6.0.2+dfsg-1
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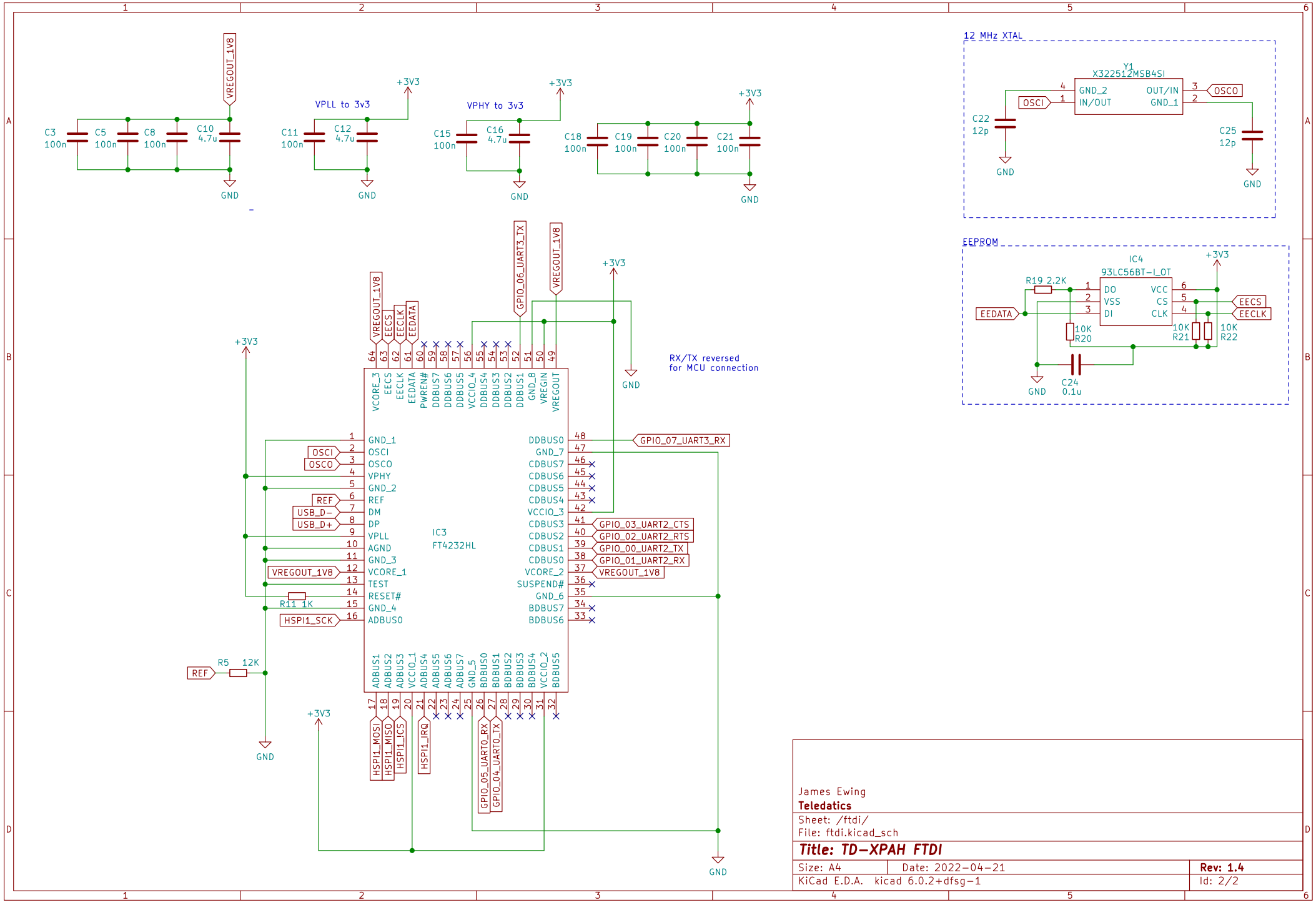

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Teledatics
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Title: TD-XPAH FTDI

Size: A4	Date: 2022-04-21	**Rev: 1.4**
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