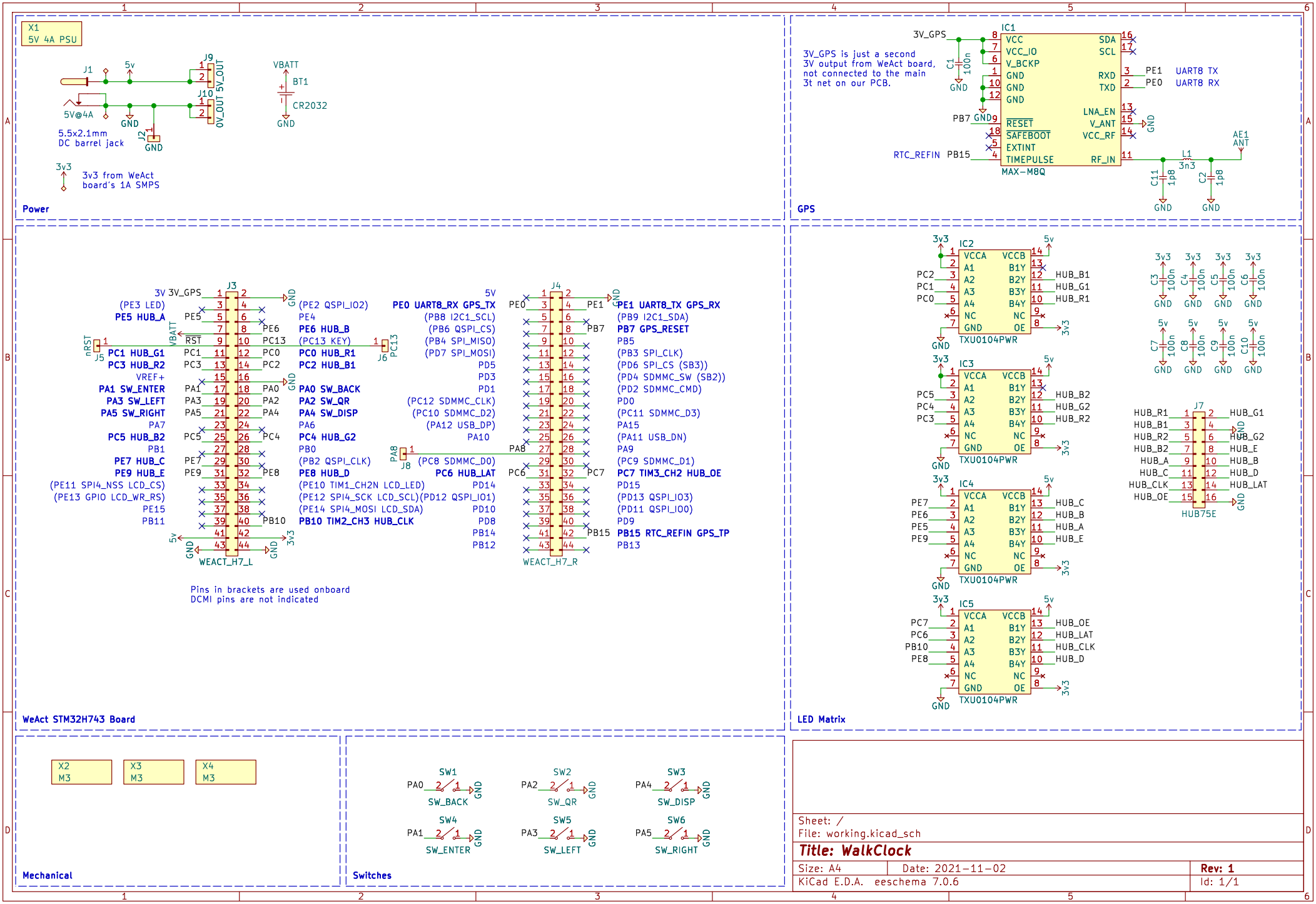
X1
5V 4A PSU
J1
5v
J9
J10
5V_OUT
0V_OUT
5V@4A
GND
J2
5.5x2.1mm
DC barrel jack
VBATT
BT1
CR2032
3v3
3v3 from WeAct
board's 1A SMPS
Power
IC1
3V_GPS
3V_GPS is just a second
3V output from WeAct board,
not connected to the main
3t net on our PCB.
C1
100n
VCC
VCC_IO
V_BACKP
GND
RESET
SAFEBOOT
EXTINT
TIMEPULSE
SDA
SCL
RXD
TXD
LNA_EN
V_ANT
VCC_RF
RF_IN
PE1 UART8 TX
PE0 UART8 RX
PB7 GND
RTC_REFIN PB15
MAX-M8Q
AE1
ANT
L1
3n3
C11
1p8
C2
1p8
GPS
J3
WEACT_H7_L
3V 3V_GPS
(PE3 LED)
PE5 HUB_A
nRST
PC1 HUB_G1
PC3 HUB_R2
VREF+
PA1 SW_ENTER
PA3 SW_LEFT
PA5 SW_RIGHT
PA7
PC5 HUB_B2
PB1
PE7 HUB_C
PE9 HUB_E
(PE11 SPI4_NSS LCD_CS)
(PE13 GPIO LCD_WR_RS)
PE15
PB11
(PE2 QSPI_IO2)
PE4
PE6 HUB_B
(PC13 KEY)
PC0 HUB_R1
PC2 HUB_B1
PA0 SW_BACK
PA2 SW_QR
PA4 SW_DISP
PA6
PC4 HUB_G2
PB0
(PB2 QSPI_CLK)
PE8 HUB_D
(PE10 TIM1_CH2N LCD_LED)
(PE12 SPI4_SCK LCD_SCL)
(PE14 SPI4_MOSI LCD_SDA)
PB10 TIM2_CH3 HUB_CLK
J4
WEACT_H7_R
5V
PE0 UART8_RX GPS_TX
(PB8 I2C1_SCL)
(PB6 QSPI_CS)
(PB4 SPI_MISO)
(PD7 SPI_MOSI)
PD5
PD3
PD1
(PC12 SDMMC_CLK)
(PC10 SDMMC_D2)
(PA12 USB_DP)
PA10
J8
(PC8 SDMMC_D0)
PC6 HUB_LAT
PD14
PD12 QSPI_IO1)
PD10
PD8
PB14
PB12
PE1 UART8_TX GPS_RX
(PB9 I2C1_SDA)
PB7 GPS_RESET
PB5
(PB3 SPI_CLK)
(PD6 SPI_CS (SB3))
(PD4 SDMMC_SW (SB2))
(PD2 SDMMC_CMD)
PD0
(PC11 SDMMC_D3)
PA15
(PA11 USB_DN)
PA9
(PC9 SDMMC_D1)
PC7 TIM3_CH2 HUB_OE
PD15
(PD13 QSPI_IO3)
(PD11 QSPI_IO0)
PD9
PB15 RTC_REFIN GPS_TP
PB13
Pins in brackets are used onboard
DCMI pins are not indicated
WeAct STM32H743 Board
IC2
IC3
IC4
IC5
VCCA
VCCB
A1
A2
A3
A4
NC
GND
B1Y
B2Y
B3Y
B4Y
OE
TXU0104PWR
HUB_B1
HUB_G1
HUB_R1
HUB_B2
HUB_G2
HUB_R2
HUB_C
HUB_A
HUB_E
HUB_OE
HUB_LAT
HUB_CLK
HUB_D
C3 100n
C4 100n
C5 100n
C6 100n
C7 100n
C8 100n
C9 100n
C10 100n
J7
HUB75E
HUB_R1
HUB_B1
HUB_R2
HUB_B2
HUB_A
HUB_C
HUB_CLK
HUB_OE
HUB_G1
HUB_E
HUB_B
HUB_D
HUB_LAT
LED Matrix
X2
M3
X3
M3
X4
M3
Mechanical
SW1
SW2
SW3
SW4
SW5
SW6
PA0
PA2
PA4
PA1
PA3
PA5
SW_BACK
SW_QR
SW_DISP
SW_ENTER
SW_LEFT
SW_RIGHT
Switches
Sheet: /
File: working.kicad_sch
Title: WalkClock
Size: A4
Date: 2021-11-02
Rev: 1
KiCad E.D.A. eeschema 7.0.6
Id: 1/1