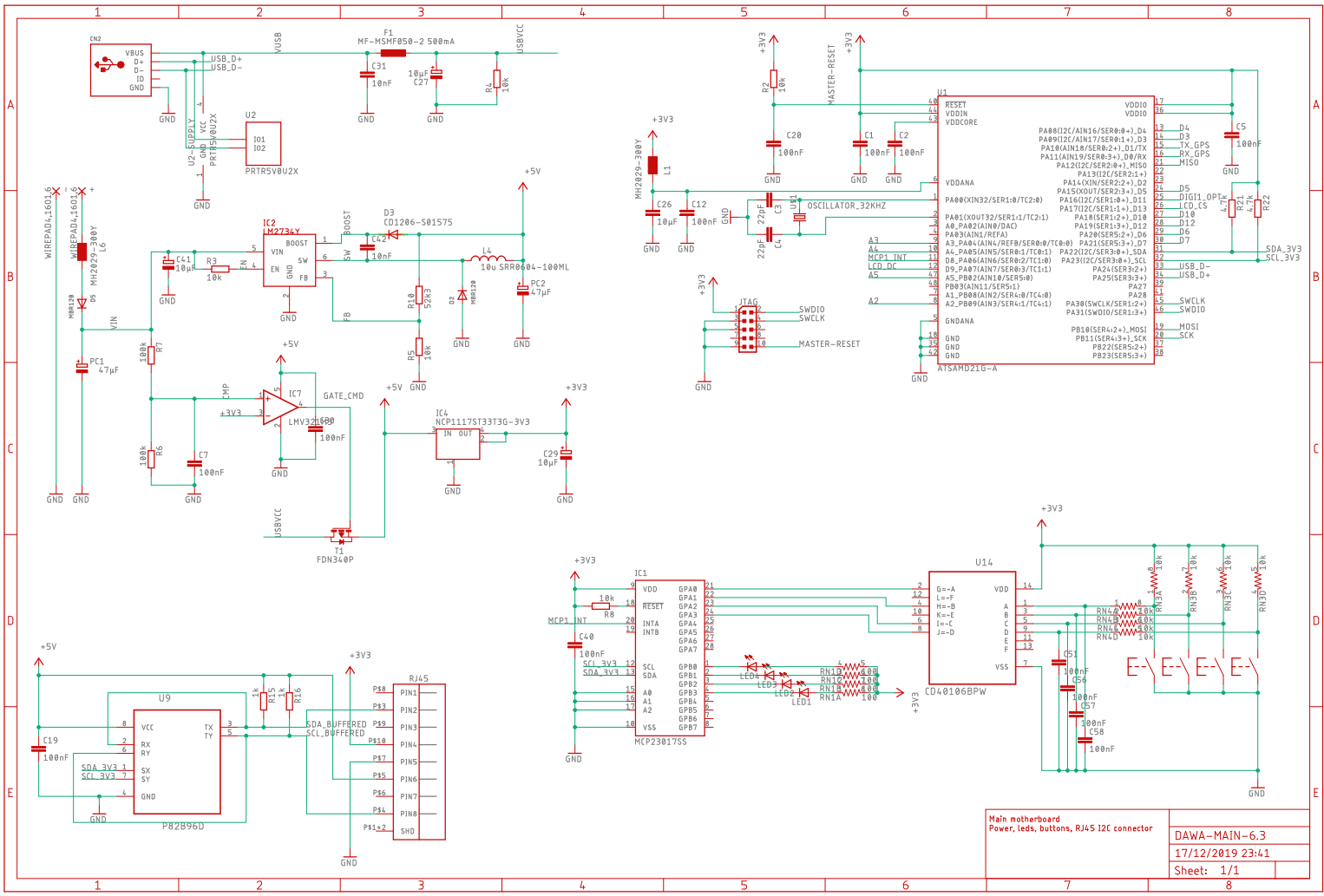
CN2
VBUS
D+
D-
ID
GND
USB_D+
USB_D-
VUSB
F1
MF-MSMF050-2 500mA
USBVCC
C31
10nF
C27
10µF
R4
10k
U2
PRTR5V0U2X
U2-SUPPLY
U2-GND
U2-VCC
IO1
IO2
WIREPAD4,160L6
WIREPAD4,160L6
L6
MH2029-300Y
MBR120
D5
VIN
PC1
47µF
R7
100k
C41
10µF
R3
10k
IC2
LM2734Y
BOOST
VIN
EN
SW
GND
FB
D3
CD1206-S01575
C42
10nF
L4
10u SRR0604-100ML
PC2
47µF
R10
52k3
R5
10k
D2
MBR120
+5V
CMP
IC7
LMV331
GATE_CMD
C6
100nF
R6
100k
C7
100nF
T1
FDN340P
IC4
NCP1117ST33T3G-3V3
IN
OUT
C29
10µF
+3V3
R2
10k
MASTER-RESET
C20
100nF
C1
100nF
C2
100nF
U1
ATSAMD21G-A
RESET
VDDIN
VDDCORE
VDDANA
GNDANA
VDDIO
OSCILLATOR_32KHZ
U41
C3
22pF
C4
22pF
C26
10µF
C12
100nF
L1
MH2029-300Y
JTAG
SWDIO
SWCLK
MASTER-RESET
C5
100nF
R21
4.7k
R22
4.7k
SDA_3V3
SCL_3V3
USB_D-
USB_D+
SWCLK
SWDIO
MOSI
SCK
MCP1_INT
LCD_DC
IC1
MCP23017SS
VDD
RESET
INTA
INTB
SCL
SDA
A0
A1
A2
VSS
GPA0
GPA1
GPA2
GPA3
GPA4
GPA5
GPA6
GPA7
GPB0
GPB1
GPB2
GPB3
GPB4
GPB5
GPB6
GPB7
R8
10k
C40
100nF
SCL_3V3
SDA_3V3
LED4
LED3
LED2
LED1
RN1D
RN1C
RN1B
RN1A
U14
CD40106BPW
G=-A
L=-F
H=-B
K=-E
I=-C
J=-D
VDD
A
B
C
D
E
F
VSS
RN3A
RN3B
RN3C
RN3D
RN4A
RN4B
RN4C
RN4D
C51
100nF
C56
100nF
C57
100nF
C58
100nF
U9
P82B96D
VCC
RX
RY
SX
SY
GND
TX
TY
SDA_3V3
SCL_3V3
C19
100nF
R15
1k
R16
1k
SDA_BUFFERED
SCL_BUFFERED
RJ45
PIN1
PIN2
PIN3
PIN4
PIN5
PIN6
PIN7
PIN8
SHD
Main motherboard
Power, leds, buttons, RJ45 I2C connector
DAWA-MAIN-6.3
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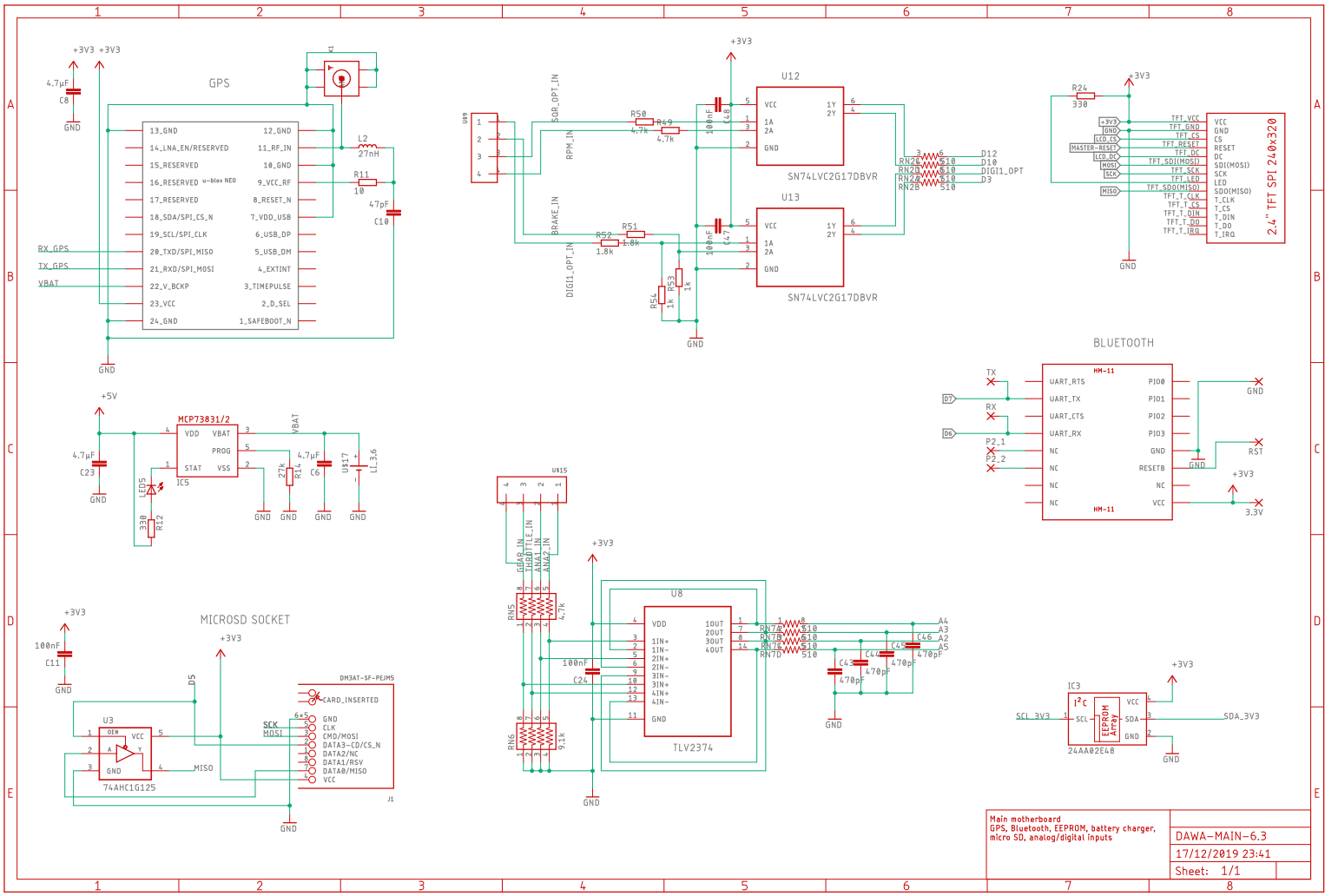
GPS
X1
C8
4.7µF
13_GND
14_LNA_EN/RESERVED
15_RESERVED
16_RESERVED
17_RESERVED
18_SDA/SPI_CS_N
19_SCL/SPI_CLK
20_TXD/SPI_MISO
21_RXD/SPI_MOSI
22_V_BCKP
23_VCC
24_GND
12_GND
11_RF_IN
10_GND
9_VCC_RF
8_RESET_N
7_VDD_USB
6_USB_DP
5_USB_DM
4_EXTINT
3_TIMEPULSE
2_D_SEL
1_SAFEBOOT_N
u-blox NEO
L2
27nH
R11
10
C10
47pF
RX_GPS
TX_GPS
VBAT
U12
U13
SN74LVC2G17DBVR
SQR_OPT_IN
RPM_IN
BRAKE_IN
DIGI1_OPT_IN
R50
4.7k
R49
4.7k
R52
1.8k
R51
1.8k
R54
1k
R53
1k
RN2C
RN2D
RN2A
RN2B
510
D12
D10
DIGI1_OPT
D3
R24
330
2.4" TFT SPI 240x320
TFT_VCC
TFT_GND
TFT_CS
TFT_RESET
TFT_DC
TFT_SDI(MOSI)
TFT_SCK
TFT_LED
TFT_SDO(MISO)
TFT_T_CLK
TFT_T_CS
TFT_T_DIN
TFT_T_DO
TFT_T_IRQ
MASTER-RESET
LCD_CS
LCD_DC
MOSI
SCK
MISO
MCP73831/2
VDD
VBAT
PROG
STAT
VSS
IC5
LED5
330
R12
C23
4.7µF
R14
27k
C6
4.7µF
U17
LL3.6
BLUETOOTH
HM-11
UART_RTS
UART_TX
UART_CTS
UART_RX
NC
PIO0
PIO1
PIO2
PIO3
RESETB
TX
RX
P2_1
P2_2
RST
3.3V
U8
TLV2374
RN5
RN6
4.7k
9.1k
RN7A
RN7B
RN7C
RN7D
C24
100nF
C45
470pF
C46
470pF
C43
470pF
C44
470pF
A4
A3
A2
A5
MICROSD SOCKET
DM3AT-SF-PEJM5
CARD_INSERTED
GND
CLK
CMD/MOSI
DATA3-CD/CS_N
DATA2/NC
DATA1/RSV
DATA0/MISO
VCC
J1
U3
74AHC1G125
OEN
VCC
GND
C11
100nF
SCK
MOSI
MISO
D5
IC3
24AA02E48
EEPROM Array
SCL
SDA
VCC
GND
SCL_3V3
SDA_3V3
Main motherboard
GPS, Bluetooth, EEPROM, battery charger, micro SD, analog/digital inputs
DAWA-MAIN-6.3
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