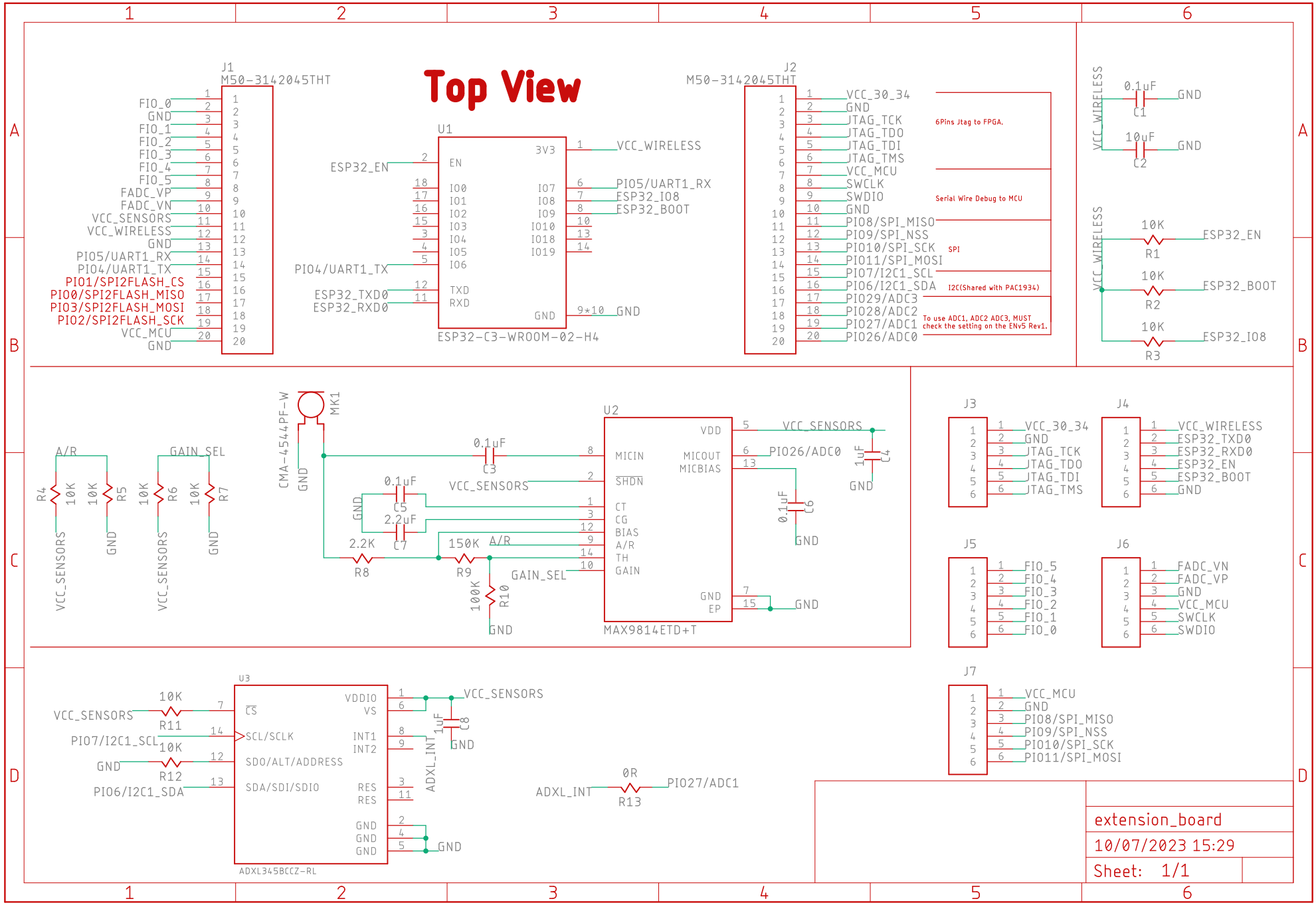
Top View
J1
M50-3142045THT
FIO_0
GND
FIO_1
FIO_2
FIO_3
FIO_4
FIO_5
FADC_VP
FADC_VN
VCC_SENSORS
VCC_WIRELESS
GND
PIO5/UART1_RX
PIO4/UART1_TX
PIO1/SPI2FLASH_CS
PIO0/SPI2FLASH_MISO
PIO3/SPI2FLASH_MOSI
PIO2/SPI2FLASH_SCK
VCC_MCU
GND
U1
ESP32-C3-WROOM-02-H4
ESP32_EN
PIO4/UART1_TX
ESP32_TXD0
ESP32_RXD0
3V3
EN
IO0
IO1
IO2
IO3
IO4
IO5
IO6
TXD
RXD
IO7
IO8
IO9
IO10
IO18
IO19
GND
VCC_WIRELESS
PIO5/UART1_RX
ESP32_IO8
ESP32_BOOT
9*10 GND
J2
M50-3142045THT
VCC_30_34
GND
JTAG_TCK
JTAG_TDO
JTAG_TDI
JTAG_TMS
VCC_MCU
SWCLK
SWDIO
GND
PIO8/SPI_MISO
PIO9/SPI_NSS
PIO10/SPI_SCK
PIO11/SPI_MOSI
PIO7/I2C1_SCL
PIO6/I2C1_SDA
PIO29/ADC3
PIO28/ADC2
PIO27/ADC1
PIO26/ADC0
6Pins Jtag to FPGA.
Serial Wire Debug to MCU
SPI
I2C(Shared with PAC1934)
To use ADC1, ADC2 ADC3, MUST check the setting on the ENv5 Rev1.
VCC_WIRELESS
0.1uF
C1
GND
10uF
C2
GND
VCC_WIRELESS
10K
R1
ESP32_EN
10K
R2
ESP32_BOOT
10K
R3
ESP32_IO8
A/R
GAIN_SEL
R4
10K
10K
R5
10K
R6
10K
R7
VCC_SENSORS
GND
VCC_SENSORS
GND
CMA-4544PF-W
MK1
GND
0.1uF
C3
VCC_SENSORS
0.1uF
C5
GND
2.2uF
C7
2.2K
R8
150K
R9
A/R
100K
R10
GND
GAIN_SEL
U2
MAX9814ETD+T
MICIN
SHDN
CT
CG
BIAS
A/R
TH
GAIN
VDD
MICOUT
MICBIAS
GND
EP
VCC_SENSORS
PIO26/ADC0
1uF
C4
GND
0.1uF
C6
GND
GND
J3
VCC_30_34
GND
JTAG_TCK
JTAG_TDO
JTAG_TDI
JTAG_TMS
J4
VCC_WIRELESS
ESP32_TXD0
ESP32_RXD0
ESP32_EN
ESP32_BOOT
GND
J5
FIO_5
FIO_4
FIO_3
FIO_2
FIO_1
FIO_0
J6
FADC_VN
FADC_VP
GND
VCC_MCU
SWCLK
SWDIO
J7
VCC_MCU
GND
PIO8/SPI_MISO
PIO9/SPI_NSS
PIO10/SPI_SCK
PIO11/SPI_MOSI
U3
ADXL345BCCZ-RL
VCC_SENSORS
10K
R11
PIO7/I2C1_SCL
10K
R12
GND
PIO6/I2C1_SDA
CS
SCL/SCLK
SDO/ALT/ADDRESS
SDA/SDI/SDIO
VDDIO
VS
INT1
INT2
RES
RES
GND
GND
GND
VCC_SENSORS
1uF
C8
GND
ADXL_INT
GND
ADXL_INT
0R
R13
PIO27/ADC1
extension_board
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Sheet: 1/1