MCU

U1
RP2350B-QFN80

+1V1
+3V3
GND
R1 33
C13 4.7uF
C14 4.7uF
C15 4.7uF
L1 3.3u
C16 15pF
Y1 ABM8-272-T3
C17 15pF
R2 1k
R7 10k
RESET1 SKRPABE010
C10 100nF
C11 4.7uF
C12 100nF
R3 27
R4 27

VREG_AVDD 61
VREG_VIN 64
VREG_FB 65
VREG_LX 63
VREG_PGND 62
QSPI_SS 75
QSPI_SD0 72
QSPI_SD1 74
QSPI_SD2 73
QSPI_SD3 70
QSPI_SCLK 71
XIN 30
XOUT 31
RUN 35
SWCLK 33
SWDIO 34
USB_DP 67
USB_DM 66

GPIO0 77 SERVO1
GPIO1 78 SERVO2
GPIO2 79 SERVO3
GPIO3 80 SERVO4
GPIO4 1 SERVO5
GPIO5 2 SERVO6
GPIO6 3 SERVO7
GPIO7 4 SERVO8
GPIO8 6 SERVO9
GPIO9 7 SERVO10
GPIO10 8 SERVO11
GPIO11 9 SERVO12
GPIO12 11 SERVO13
GPIO13 12 SERVO14
GPIO14 13 SERVO15
GPIO15 14 SERVO16
GPIO16 16 DIGITAL1
GPIO17 17 DIGITAL2
GPIO18 18 DIGITAL3
GPIO19 19 DIGITAL4
GPIO20 20 DIGITAL5
GPIO21 21 DIGITAL6
GPIO22 22 IMU_INT1
GPIO23 23 IMU_INT2
GPIO24 25 LED1
GPIO25 26 LED2
GPIO26 27 SPI_CLK
GPIO27 28 SPI_MOSI
GPIO28 36 SPI_MISO
GPIO29 37 D29
GPIO30 38 D30
GPIO31 39 D31
GPIO32 40 SERVO17
GPIO33 42 SERVO18
GPIO34 43 SERVO_ADC_S0
GPIO35 44 SERVO_ADC_S1
GPIO36 45 I2C_SDA
GPIO37 46 I2C_SCL
GPIO38 47 SERVO_ADC_S2
GPIO39 48 SERVO_ADC_S3
GPIO40_ADC0 49 SERVO_ADC_COMMON
GPIO41_ADC1 52 SERVO17_ADC
GPIO42_ADC2 53 SERVO18_ADC
GPIO43_ADC3 54 ADC3
GPIO44_ADC4 55 ADC4
GPIO45_ADC5 56 ADC5
GPIO46_ADC6 57 D46
GPIO47_ADC7 58 D47

PORT 2

CAPS

C1 C2 C3 C4 C5 C6 C7 C8 C9 C24 C25 100nF

FLASH

U2
W25Q16JVUXIQ_TR
BOOT1 SKRPABE010
R5 10k
R6 1k
C18 100nF

LDO

U3
NCP115ASN330T2G
C19 1uF
C20 1uF

LEDs

LED1 R8 560
LED2 R9 560

SWD

SWD1 Conn_01x05_Pin

POWER

SERVO_POWER
POWER1 691137710002

USB

J3
USB_C_OUT
R10 5.1k
R11 5.1k

DIGITAL

DIGITAL1
DIGITAL2
DIGITAL3
DIGITAL4
DIGITAL5
DIGITAL6

SERVO HEADERS

RN1 CAY16-181J4LF
RN2 CAY16-181J4LF
RN3 CAY16-181J4LF
RN4 CAY16-181J4LF
RN5 CAY16-181J4LF
SERVO_POWER
C26 220uF

MULTIPLEXER

U4
CD74HC4067SM96
C21 100nF

HEADER

J1
J2

IMU

U5
ICM_45686:IC_ICM-45686
C22 100nF
C23 100nF

I2C PULL-UPS

R12 10k
R13 10k

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