







Bill Of Materials

| References | Value | Footprint | Qty |
|---|-----------------------------|---|-----|
| C1 C11 | 47uF | Capacitor_SMD:C_1206_3216Metric | 2 |
| C2 C3 C4 C5 C6 C7 C8 C9 C15 C16 C17 C21 C23 C45 C46 C48 C52 C54 | 0.1uF | Capacitor_SMD:C_0603_1608Metric_Pad1.0 8x0.95mm_HandSolder | 18 |
| C10 C53 C55 C56 | 1uF | Capacitor_SMD:C_0603_1608Metric_Pad1.0 8x0.95mm_HandSolder | 4 |
| C12 C13 C18 C47 C49 | 10uF | Capacitor_SMD:C_0805_2012Metric_Pad1.1 8x1.45mm_HandSolder | 5 |
| C14 C19 | 2.2nF | Capacitor_SMD:C_0603_1608Metric_Pad1.0 8x0.95mm_HandSolder | 2 |
| C20 C22 | 2.2uF | Capacitor_SMD:C_0603_1608Metric_Pad1.0 8x0.95mm_HandSolder | 2 |
| C38 | 100uF | Capacitor_SMD:C_1206_3216Metric | 1 |
| C39 C40 C41 C42 C43 C44 | 2.2uF | Capacitor_SMD:CP_Elec_4x5.4 | 6 |
| C50 C51 C24 C25 | 30pF | Capacitor_SMD:C_0603_1608Metric_Pad1.0 8x0.95mm_HandSolder | 4 |
| D1 | LED | LED_SMD:LED_0805_2012Metric_Pad1.15x 1.40mm_HandSolder | 1 |
| F1 | Polyfuse | Fuse:Fuse_1812_4532Metric_Pad1.30x3.40 mm_HandSolder | 1 |
| FB1 FB2 | 1KΩ@100MHz | Inductor_SMD:L_0805_2012Metric_Pad1.05 x1.20mm_HandSolder | 2 |
| FB3 FB4 | 100Ω@100MHz | Inductor_SMD:L_0805_2012Metric_Pad1.05 x1.20mm_HandSolder | 2 |
| J1 | USB_C_Receptacle_USB2.0_16P | Connector_USB:USB_C_Receptacle_HRO_ TYPE-C-31-M-12 | 1 |
| J3 | IRQDMA_JP | Connector_PinHeader_2.54mm:PinHeader_2 x09_P2.54mm_Vertical | 1 |
| J6 J8 | Conn_01x04_Pin | Connector_PinHeader_2.54mm:PinHeader_1 x04_P2.54mm_Vertical | 2 |
| J7 J9 | 3.5mm TRS | my:PJ-322 | 2 |
| J11 | PC104 | Connector_PinHeader_2.54mm:PinHeader_2 x32_P2.54mm_Vertical | 1 |
| R1 R5 | 10K | Resistor_SMD:R_0603_1608Metric_Pad0.98 x0.95mm_HandSolder | 2 |
| R2 R3 | 220 | Resistor_SMD:R_0603_1608Metric_Pad0.98 x0.95mm_HandSolder | 2 |
| R4 R6 R7 R8 R9 | 1K | Resistor_SMD:R_0603_1608Metric_Pad0.98 x0.95mm_HandSolder | 5 |
| R10 R11 R13 | 470 | Resistor_SMD:R_0603_1608Metric_Pad0.98 x0.95mm_HandSolder | 3 |
| R18 | 15K | Resistor_SMD:R_0603_1608Metric_Pad0.98 x0.95mm_HandSolder | 1 |
| SW1 | SW_Push | Button_Switch_THT:SW_PUSH_6mm | 1 |
| U1 U2 | SN74CB3T3257 | Package_SO:TSSOP-16_4.4x5mm_P0.65m m | 2 |
| U3 | 74AHC14 | Package_SO:TSSOP-14_4.4x5mm_P0.65m m | 1 |

| U4 U5 | 74LVC00 | Package_SO:TSSOP-14_4.4x5mm_P0.65m | 2 |
|--|---------------------|---|----|
| U6 | 74LVC2G06DB | Package_TO_SOT_SMD:SOT-23-6_Handsol dering | 1 |
| U7 | SN74CB3T3245 | Package_SO:TSSOP-20_4.4x6.5mm_P0.65 mm | 1 |
| U8 | APS6404L-3SQR-SN | Package_SO:SOIC-8_3.9x4.9mm_P1.27mm | 1 |
| U9 | AMS1117-3.3_SOT223 | Package_TO_SOT_SMD:SOT-223-3_TabPin 2 | 1 |
| U10 | PCM5100 | Package_SO:TSSOP-20_4.4x6.5mm_P0.65 mm | 1 |
| U13 | M62429L | Package_SO:SOIC-8_3.9x4.9mm_P1.27mm | 1 |
| U14 | SAM2695 | my:QFN-48-1EP_6x6mm_P0.4mm_EP4.2x4. 2mm | 1 |
| Y2 Y1 | ABLS-12.000MHZ-B4-T | my:Crystal_SMD_3225-4Pin_3.2x2.5mm_Ha ndSoldering | 2 |
| C26 C27 C28 C30 C32 C33 C34 C35 C36 C37 | 100n | Capacitor_SMD:C_0603_1608Metric_Pad1.0 8x0.95mm_HandSolder | 10 |
| C29 C31 | 1u | Capacitor_SMD:C_0603_1608Metric_Pad1.0 8x0.95mm_HandSolder | 2 |
| R12 R14 | 1k | Resistor_SMD:R_0603_1608Metric_Pad0.98 x0.95mm_HandSolder | 2 |
| R15 R16 | 27 | Resistor_SMD:R_0603_1608Metric_Pad0.98 x0.95mm_HandSolder | 2 |
| U11 | W25Q128JVS | my:SOIC-8_5.23x5.23mm_P1.27mm-LONG | 1 |
| U12 | RP2040 | my:QFN-56-1EP_7x7mm_P0.4mm_EP3.2x3. 2mm | 1 |



