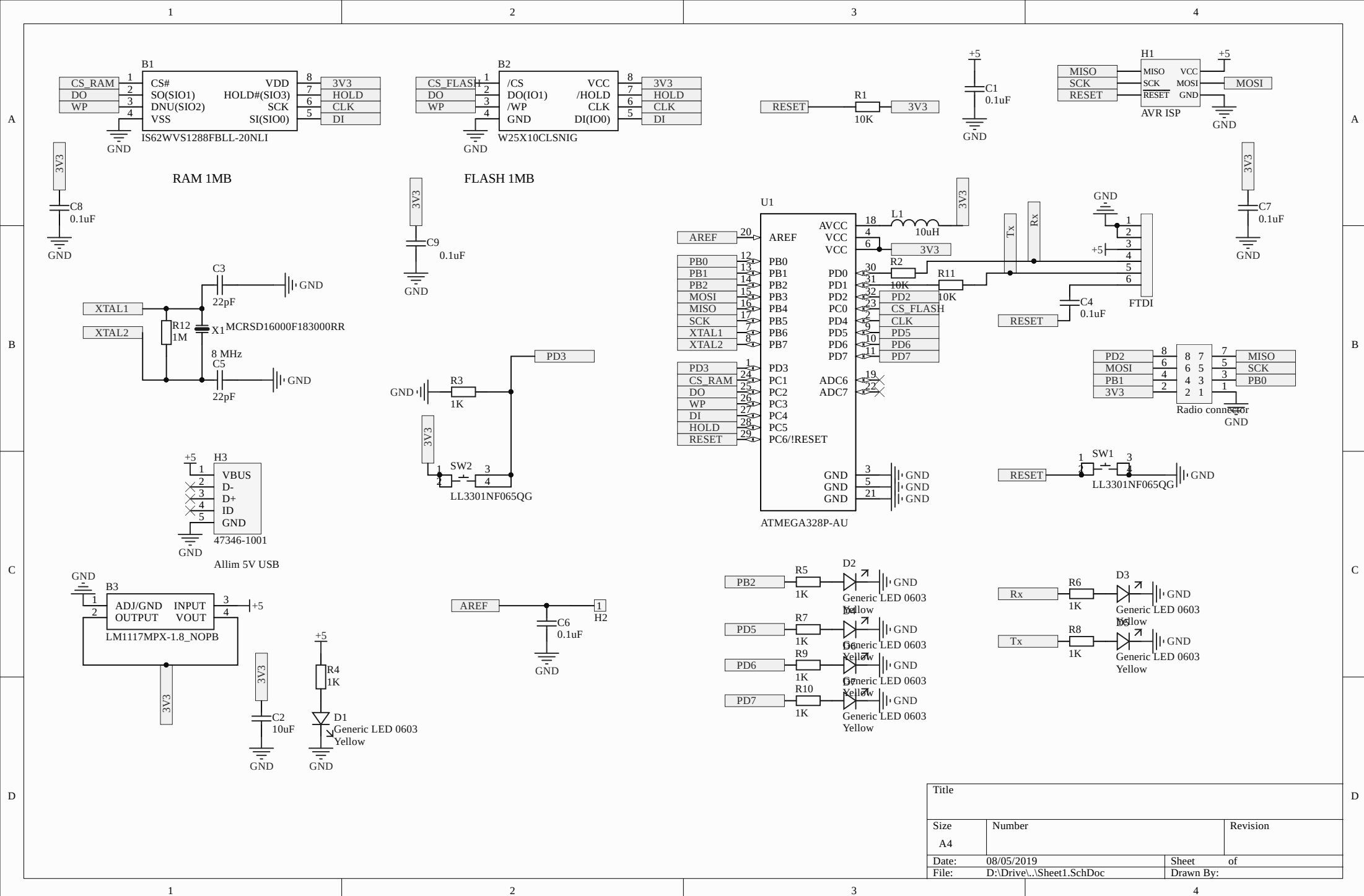
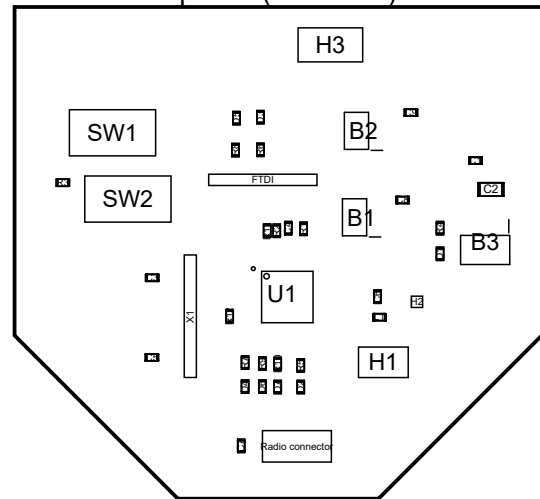


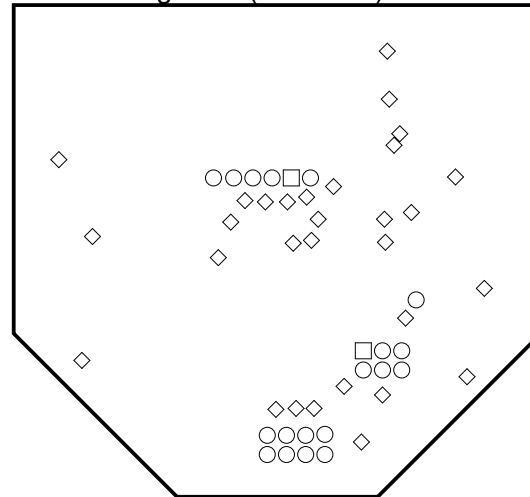


| Comment                   | Description                                                                     | Designator                      | LibRef                    | Quantity | Value  |
|---------------------------|---------------------------------------------------------------------------------|---------------------------------|---------------------------|----------|--------|
| 47346-1001                | USB Connectors uUSB B Rec BotMt Flangeless SMT                                  | H3                              | 47346-1001                | 1        |        |
| ATMEGA328P-AU             | Microcontroller Mcu, 8 Bit, Atmega, 20mhz, Tqfp-32                              | U1                              | ATMEGA328P-AU             | 1        |        |
| AVR ISP                   | Programmation SPI AVR microcontrollers                                          | H1                              | ICSP                      | 1        |        |
| Header1x1                 | Generic header 1 x 1 contacts                                                   | H2                              | Header1x1                 | 1        |        |
| Header1x6                 | Generic header 1 x 6 contacts                                                   | FTDI                            | Header1x6                 | 1        |        |
| Header2x4                 | Generic header 2.54 mm 2 x 4 contacts                                           | Radio connector                 | Header2x4                 | 1        |        |
| IS62WVS1288FBL<br>L-20NLI | SRAM 1Mb 128Kx8 20MHz 2.2-3.6V Serial SRAM                                      | B1                              | IS62WVS1288<br>FBLL-20NLI | 1        |        |
| LL3301NF065QG             | ushbutton Switches 50mA 12VDC F065 4.3mm Gull<br>Wing                           | SW1, SW2                        | LL3301NF065<br>QG         | 2        |        |
| LM1117MPX-<br>1.8_NOPB    | Space saving 800-mA low-dropout linear regulator<br>with internal current limit | B3                              | LM1117MPX-<br>1.8_NOPB    | 1        |        |
| MCRSD16000F18<br>3000RR   | QUARTZ 16MHZ 18PF HC49-US SMD                                                   | X1                              | MCRSD16000<br>F183000RR   | 1        |        |
| W25X10CLSNI<br>G          | NOR Flash spiFlash, 1M-bit, 4Kb Uniform Sector                                  | B2                              | W25X10CLSNI<br>G          | 1        |        |
| CAP0603                   | Generic capacitor                                                               | C1, C4, C6, C7, C8, C9          | CAP_0603                  | 6        | 0.1uF  |
| RES 0603                  | Generic resistor                                                                | R3, R4, R5, R6, R7, R8, R9, R10 | RES_0603                  | 8        | 1K     |
| RES 0603                  | Generic resistor                                                                | R12                             | RES_0603                  | 1        | 1M     |
| RES 0603                  | Generic resistor                                                                | R1, R2, R11                     | RES_0603                  | 3        | 10K    |
| CAP 1206                  | Generic capacitor                                                               | C2                              | CAP_1206                  | 1        | 10uF   |
| Inductor 0603             | Default inductor                                                                | L1                              | IND_0603                  | 1        | 10uH   |
| CAP0603                   | Generic capacitor                                                               | C3, C5                          | CAP_0603                  | 2        | 22pF   |
| Generic LED 0603          | Generic LED, 0603 package                                                       | D1, D2, D3, D4, D5, D6, D7      | LED_0603                  | 7        | Yellow |

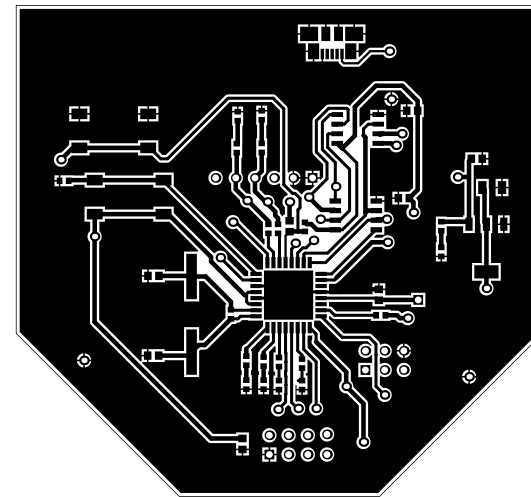
View from Top side (Scale 1:1)



Drill Drawing View (Scale 1:1)



Top Layer (Scale 1:1)



Drill Table

| Symbol | Count    | Hole Size | Plated     | Hole Tolerance |
|--------|----------|-----------|------------|----------------|
| ◇      | 30       | 0.71mm    | Plated     | None           |
| □      | 2        | 0.90mm    | Non-Plated | None           |
| ○      | 19       | 0.90mm    | Plated     | None           |
|        | 51 Total |           |            |                |

Bill Of Materials

| Line # | Designator                      | Comment               | Quantity | Value  |
|--------|---------------------------------|-----------------------|----------|--------|
|        | B1                              | IS62WVS1288FBLL-20NLI | 1        |        |
|        | B2                              | W25X10CLSNIG          | 1        |        |
|        | B3                              | LM1117MPX-1.8_NOPB    | 1        |        |
|        | C1, C4, C6, C7, C8, C9          | CAP0603               | 6        | 0.1uF  |
|        | C2                              | CAP 1206              | 1        | 10uF   |
|        | C3, C5                          | CAP0603               | 2        | 22pF   |
|        | D1, D2, D3, D4, D5, D6, D7      | Generic LED 0603      | 7        | Yellow |
|        | FTDI                            | Header1x6             | 1        |        |
|        | H1                              | AVR ISP               | 1        |        |
|        | H2                              | Header1x1             | 1        |        |
|        | H3                              | 47346-1001            | 1        |        |
|        | L1                              | Inductor 0603         | 1        | 10uH   |
|        | R1, R2, R11                     | RES 0603              | 3        | 10K    |
|        | R3, R4, R5, R6, R7, R8, R9, R10 | RES 0603              | 8        | 1K     |
|        | R12                             | RES 0603              | 1        | 1M     |
|        | Radio connector                 | Header2x4             | 1        |        |
|        | SW1, SW2                        | LL3301NF065QG         | 2        |        |
|        | U1                              | ATMEGA328P-AU         | 1        |        |
|        | X1                              | MCRSD16000F183000RR   | 1        |        |

Bottom Layer (Scale 1:1)

