

A

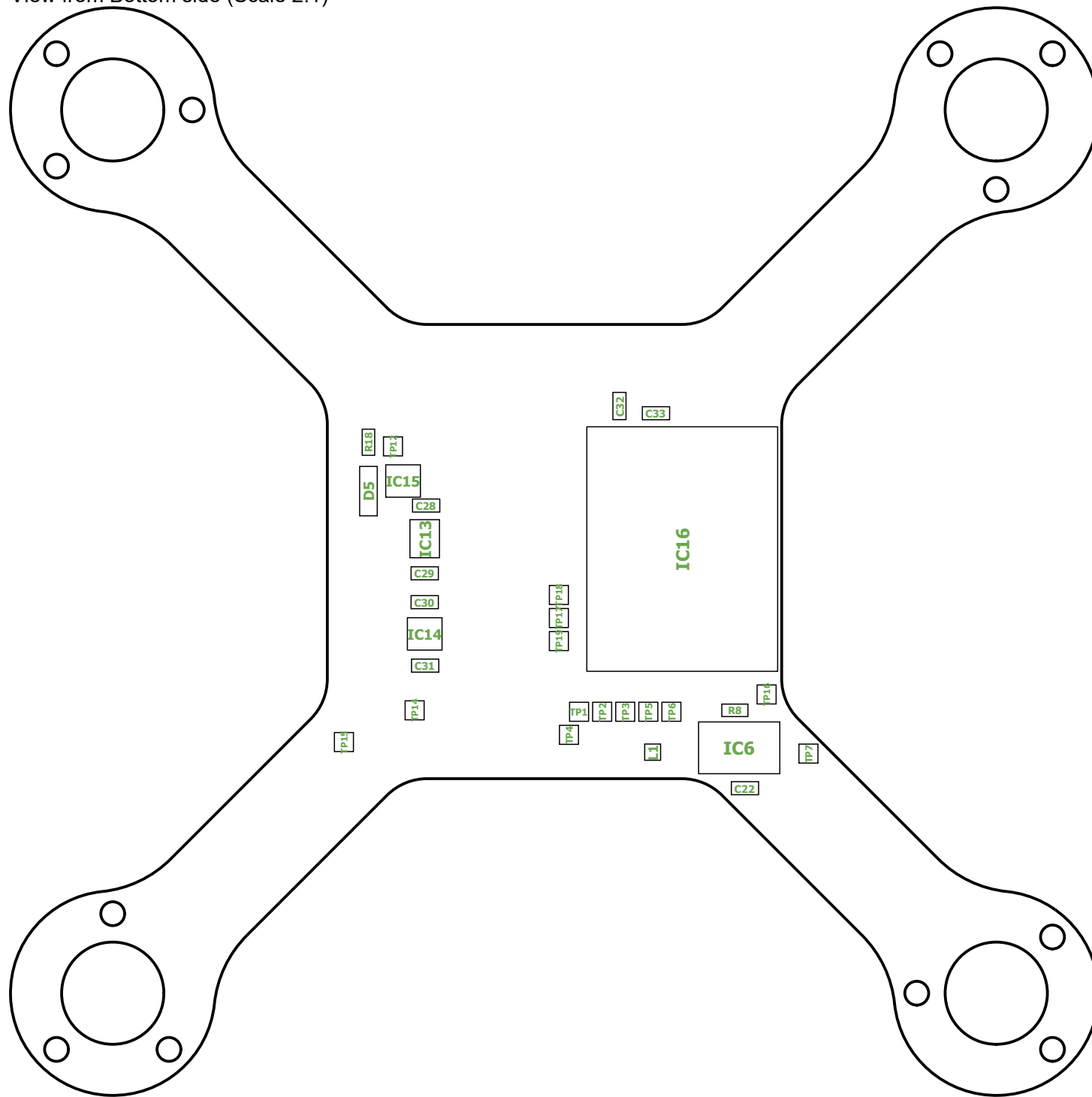
B

C

D

E

View from Bottom side (Scale 2:1)



A

B

C

D

E

Bill Of Materials

| Line # | Designator | Comment | Quantity |
|--------|---|--------------------|----------|
| 1 | C1, C5, C7, C9, C10, C11, C12, C15, C16, C17, C18, C19, C26, C27, C33 | 0.1μF | 15 |
| 2 | C2, C3 | 22pF | 2 |
| 3 | C4, C28, C29, C30, C31 | 1μF | 5 |
| 4 | C6, C32 | 10μF | 2 |
| 5 | C13, C14, C22 | 2.2μF | 3 |
| 6 | C20, C21, C23, C24 | 22μF | 4 |
| 7 | C25 | 0.022μF | 1 |
| 8 | D1, D2, D3, D4 | V2FL45-M3/H | 4 |
| 9 | D5 | SS1FL3-M3/H | 1 |
| 10 | FB1 | BLM31KN601BH1L | 1 |
| 11 | IC1 | STM32F405RGT6TR | 1 |
| 12 | IC2 | TXB0108PWR | 1 |
| 13 | IC3 | ICM-20948 | 1 |
| 14 | IC4, IC5, IC7, IC8 | FDN339AN | 4 |
| 15 | IC6 | MIC4802YME | 1 |
| 16 | IC9 | AP9101CK-AHTRG1 | 1 |
| 17 | IC10 | INA190A2IDCKT | 1 |
| 18 | IC11, IC12 | DMN1019USN-13 | 2 |
| 19 | IC13 | AP2112K-3.3TRG1 | 1 |
| 20 | IC14 | AP7313-18SAG-7 | 1 |
| 21 | IC15 | DMG2305UX-13 | 1 |
| 22 | IC16 | DWM1001 | 1 |
| 23 | J4 | 10118193-0001LF | 1 |
| 24 | J5 | B2B-PH-K-S(LF)(SN) | 1 |
| 25 | L1 | SCP9WTF1HEL1WKG34E | 1 |
| 26 | Q1 | BC847A-7-F | 1 |
| 27 | R1, R2, R3, R5, R6, R7, R9, R10, R14, R18 | 10 kOhms | 10 |
| 28 | R4 | 1 kOhms | 1 |
| 29 | R8 | 20 kOhms | 1 |
| 30 | R11 | 12 mOhms | 1 |
| 31 | R12 | 330 Ohms | 1 |
| 32 | R13, R15 | 100 Ohms | 2 |
| 33 | R16 | 2.7 kOhms | 1 |
| 34 | R17 | 30 kOhms | 1 |
| 35 | S1, S2 | FSMSM | 2 |
| 36 | Y1 | 8MHz | 1 |