

| | | | PROJECT NAME: STEVAL-IME011V1 | | |
|------|----------|---|-------------------------------|----------------|--------------------|
| | | | BILL OF MATERIALS | | |
| Item | Quantity | Reference | Part / Value | Package | Manufacturer |
| 1 | 6 | CF1, CF2, CF3, CF4, CF5, CF6 | CAP_ELECTROLIT, 10µF | 3216-18 | |
| 2 | 2 | C1_F2_F4, C2_F2_F4 | CAP_ELECTROLIT, 2.2µF | 1608-10 | |
| 3 | 4 | CF7, CF8, CF9, CF10 | CAPACITOR, 10µF | C2220 | |
| 4 | 19 | CAD1, CAD2, CB1, CB2, CB3, CB4, CB5, CB6, CB7, CB8, CB9, CB10, CB11, CB12, CP1, CP2, CP3, CP4, CRST | CAPACITOR, 100nF | C0603 | |
| 5 | 2 | CC1, CC2 | CAPACITOR, 10nF | C0603 | |
| 6 | 16 | CB13, CB14, CB15, CB16, CB17, CB18, CB19, CB20, CB21, CB22, CB23, CB24, CB25, CB26, CB27, CB28 | CAPACITOR, 220nF | C0805 | |
| 7 | 4 | CR1, CR2, CR3, CR4 | CAPACITOR, 22nF | C0603 | |
| 8 | 2 | Cosc1, Cosc2 | CAPACITOR, 22pF | C0603 | |
| 9 | 4 | CLA, CLB, CLC, CLD | CAPACITOR, 270pF | C1206 | |
| 10 | 4 | CR5, CR6, CR7, CR8 | CAPACITOR, 3.9nF | C0603 | |
| 11 | 1 | X1 | crystals, LFX TAL011301 | HC49-US-SMX | |
| 12 | 1 | UF1 | ESD, USBUF01W6 | SOT-363 | |
| 13 | 1 | JTAG | GENERIC, HDR1X8 | SIL8 | |
| 14 | 1 | U2 | HV_PULSER, STHV748 | QFN-64 | STMicroelectronics |
| 15 | 1 | REG1 | LDO, LD1117 | SOT-223 | STMicroelectronics |
| 16 | 1 | REG2 | LDO, LT3032 | DFN14 | |
| 17 | 5 | L1, L2, L3, L4, USB_PWR | LED | L0603 | |
| 18 | 1 | POT1 | POTENTIOMETER, 10kΩ | 3224J | |
| 19 | 4 | HVM0, HVM1, HVP0, HVP1 | Power, AMP_CONNECTOR | PM508-2-90 | |
| 20 | 2 | VDD, VSS | Power, AMP_CONNECTOR_2 | PM508-2-90 | |
| 21 | 1 | RGND | RESISTOR, 0Ω | R0805 | |
| 22 | 2 | R2_F2_F4, R1_F1_F4 | RESISTOR, 0Ω | R0603 | |
| 23 | 2 | RAD2, RAD3 | RESISTOR, 100kΩ | R0603 | |
| 24 | 4 | RLA, RLB, RLC, RLD | RESISTOR, 100Ω | R1210 | |
| 25 | 2 | RF1, RF4 | RESISTOR, 107kΩ | R0603 | |
| 26 | 5 | RP1, RP2, RP3, RP4, RTHSD | RESISTOR, 10kΩ | R0603 | |
| 27 | 1 | Rosc | RESISTOR, 1MΩ | R0603 | |
| 28 | 2 | RAD1, RAD4 | RESISTOR, 2.7kΩ | R0603 | |
| 29 | 2 | R18, RSHD | RESISTOR, 330Ω | R0603 | |
| 30 | 14 | RE0, RE1, RE2, RE3, RE4, RE5, RE6, RE7, RL1, RL2, RL3, RL4, RL5, RL6 | RESISTOR, 56Ω | R0603 | |
| 31 | 2 | RF2, RF3 | RESISTOR, 62kΩ | R0603 | |
| 32 | 2 | D1, D2 | SCHOTTKY, BAT20J | SOD-323 | |
| 33 | 5 | AN_SUPPLY, SPI1, SPI2, SPI3, USR_RX | header, JUMPER2P | SIL2 | |
| 34 | 3 | BOOT0, SPI_JTAG_1, SPI_JTAG_2 | header JUMPER3P | SIL3 | |
| 35 | 8 | LVOUTA, LVOUTB, LVOUTC, LVOUTD, XDCRA, XDCRB, XDCRC, XDCRD | connector, SMB | SMB-SMT | |
| 36 | 1 | U1 | STM32F427VI | LQFP-100 | STMicroelectronics |
| 37 | 5 | STR, PRG, STP, USR, RST | SWITCHES, PUSH_BUTTON | DTSM6 | |
| 38 | 1 | USB | TE_CONNECTIVITY, 1734035-1 | MINI USB-B SMT | |
| 39 | 2 | ZAD1, ZAD2 | ZENER, DZ2S033 | SOD-523 | |
| 40 | 1 | L5 | LED | L0603 | |
| 41 | 1 | L6 | LED | L0603 | |