

Here you can find the recent Bill of Materials for OVI40-SDR.

UI-PCB:

Please pay attention! This BOM is a preliminary and might change during betatest phase.

E.g.the SD-Cardreader which is listed here will be replaced in series because it is no longer available.

| BOM OVI40-SDR UI V1.7 | | 24-09-2017 | DF80E | Distributor / Prices | | | | | | | | |
|-----------------------|----------------|---------------------------------|-----------------|----------------------|----------|-------|---------------|-------|----------------------|-------|--------------------|-------|
| Part | Value | Description | Package | Amount | FARNELL | Price | Reichelt | Price | Mouser | Price | Digikey | Price |
| IC1 /IC12 | WM8731 | Audio CODEC WM8731 | SSOP28 | 2 | | | | | 238-WM8731SEDS/V | | WM8731SEDS/RVCT-ND | 3,63 |
| | | or Audio CODEC TLV320AIC23BPWG4 | SSOP28 | 2 | 120-7297 | 9,25 | | | | | | |
| IC2 | LM4952TS | Ti Stereo Audio PA | LM4952 | 1 | 100-8028 | 3,72 | | | 926-LM4952TS/NOPB | | LM4952TS/NOPB-ND | 3,06 |
| IC3 | LP5907_Q1 | Ti low noise LDO 3.3 Volt | SOT23-5 | 1 | 249-2304 | 0,654 | | | 595-LP5907QMF3-3.3Q1 | | 296-38557-1-ND | 0,47 |
| IC4 | STM32F76X_ZIT6 | MCU | LQFP144 | 1 | 253-5499 | 12,84 | | | 511-STM32F767ZIT6 | | 497-16521-ND | 13,26 |
| IC5 | ASTX-H11 | 16 MHz TCXO 2,5ppm 3,2 x 2,5 mm | TCXO_32X25 | 1 | | | | | 815-ASTXH1116T | | 535-12044-1-ND | 2,84 |
| IC6 | KA78RM33R | 3.3 Volt LDO | DPAK | 1 | 245-1041 | 0,681 | TS 2940 CP33 | | 821-TS2940CP33 | | | |
| IC7 | AT24CM02 | I2C EEPROM | S008 | 1 | | | 24LC1026 JSN | | 579-24LC1026I/SN | | AT24CM02-SSHM-B-ND | 1,89 |
| IC8 | NCP5501DT50G | 5.0 Volt LDO | DPAK | 1 | 170-3369 | 0,602 | TS 2940 CP50 | | 821-TS2940CP50 | | | |
| Q1 | 32,768 kHz | QCM-315_SMD | CM315 | 1 | | | | | 695-CM315D-32.7KEZFT | | 300-8813-1-ND | 0,6 |
| T3 | BC857 | PNP Transistor | SOT23 | 1 | 179-8067 | 0,02 | BC 857C SMD | 0,034 | 771-BC857CW115 | | | |
| D5 | BAV70 | Double Diode | SOT23 | 2 | 267-7467 | 0,031 | BAV 70 SMD | 0,034 | 512-BAV70 | | | |
| D6 | BAV70 | Double Diode | SOT23 | . | | | | | | | | |
| D7 | BAS85 | Schottky barrier diode | SOD80C | 3 | 146-9394 | 0,23 | BAS 85 SMD | 0,034 | 771-BAS85135 | | | |
| D8 | BAS85 | Schottky barrier diode | SOD80C | . | | | | | | | | |
| D9 | BAS85 | Schottky barrier diode | SOD80C | . | | | | | | | | |
| D1 | green | LED | LED_3MM | 1 | 276-4976 | 0,409 | LED 3MM ST GN | | 710-151034GS03000 | | | |
| D2 | red | LED | LED_3MM | 1 | 276-4977 | 0,361 | LED 3MM ST RT | | 710-151034RS03000 | | | |
| D3 | blue | LED | LED_3MM | 1 | 276-4975 | 0,443 | LED 3MM ST BL | | 710-151034BS03000 | | | |
| BAT1-HOLDER | | Battery Holder CR2032 | | 1 | 188-5903 | 2,98 | | | | | BU2032-1-ND | 0,66 |
| BAT1 | CR2032P_L | Lithium Battery 3,0Volt | CR_2032_H | 1 | | | CR 2032P-H | | | | | |
| X1 | PN87520-S | USB Plug HOST | PN87520-S | 1 | 117-7883 | 0,81 | USB AW | 0,2 | | | | |
| J11 | MINI-USB_B | USB Plug DFU | MINI-USB_B | 1 | 211-2367 | 0,561 | USB BWM SMD | 0,28 | | | | |
| LCD1 | HY32D | 3,2 Zoll LCD ILI9325 | HY32D_UHSDR_MOD | 1 | | | | | | | | |
| L1 | 47uH | L_SMD1005 | L1005 | 3 | 221-5655 | 0,13 | | | 810-MLZ2012M470WT000 | | MLZ2012M470WT000 | 0,12 |
| L2 | 47uH | L_SMD1005 | L1005 | . | | | | | | | | |
| L3 | 47uH | L_SMD1005 | L1005 | . | | | | | | | | |
| R1 | 47k | SMD Resistor TK50 | 0805 | 6 | | | SMD-0805 47k | 0,02 | 667-ERJ-U06F4702V | | | |
| R1A | 100R | SMD Resistor TK50 | 0603 | 13 | | | SMD-0603 100 | 0,03 | 667-ERJ-3RBD1000V | | | |
| R1B | 0R | SMD Resistor TK50 | 0603 | 3 | | | SMD-0603 0 | 0,03 | 667-ERJ-3GEY0R00V | | | |
| R2 | 1k | SMD Resistor TK50 | 0603 | 7 | | | SMD-0603 1,0k | 0,03 | 667-ERJ-S03F1001V | | | |
| R3 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R4 | 1k | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R4B1 | 2R2 | SMD Resistor TK50 | 1206 | 4 | | | SMD 1/4W 2,2 | 0,03 | 71-CRCW12062R20FNEB | | | |
| R4D | 2R2 | SMD Resistor TK50 | 1206 | . | | | | | | | | |
| R5 | 0R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R6 | 1k | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R7 | 1k | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R8 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R9 | 4k7 | SMD Resistor TK50 | 0805 | 4 | | | SMD-0805 4,7k | 0,02 | 667-ERJ-S06F4701V | | | |
| R10 | 4k7 | SMD Resistor TK50 | 0603 | 1 | | | SMD-0603 4,7k | 0,02 | 667-ERJ-3EKF4701V | | | |
| R11 | 4k7 | SMD Resistor TK50 | 0805 | . | | | | | | | | |
| R12 | 4k7 | SMD Resistor TK50 | 0805 | . | | | | | | | | |
| R13 | 47R | SMD Resistor TK50 | 0603 | 7 | | | SMD-0603 47 | 0,03 | 667-ERJ-3EKF47R0V | | | |
| R14 | 47R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R15 | 1k | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R16 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R17 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R18 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R19 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R20 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R21 | 47R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R22 | 47R | SMD Resistor TK50 | 0603 | . | | | | | | | | |
| R23 | 0R | SMD Resistor TK50 | 0805 | 8 | | | SMD-0805 0 | 0,02 | 667-ERJ-U060R00V | | | |

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12:34

en:projekte:ovi40-sdr:bom <https://amateurfunk-sulingen.de/wiki/doku.php?id=en:projekte:ovi40-sdr:bom&rev=1512736447>

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|------|-------|-------------------------------|----------------|----|--|---------------------|------|---------------------|--|--|--|
| R24 | 680R | SMD Resistor TK50 | 0805 | 4 | | SMD-0805 680 | 0,02 | ERJ-6ENF6800V | | | |
| R25 | 4k7 | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R26 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R27 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R28 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R29 | 1k | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R30 | 0R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R31 | 0R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R32 | 0R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R33 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R34 | 100R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R35A | 4R7 | SMD Resistor TK50 | 1206 | 1 | | SMD ¼W 4,7 | 0,03 | 71-CRCW12064R70FNEB | | | |
| R36 | 680R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R37 | 680R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R40 | 1k | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R41 | 47R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R45 | 2R2 | SMD Resistor TK50 | 1206 | . | | | | | | | |
| R46 | 2R2 | SMD Resistor TK50 | 1206 | . | | | | | | | |
| R47 | 47R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R48 | 47R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R101 | 0R | SMD Resistor TK50 | 0603 | . | | | | | | | |
| R108 | 0R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R110 | 0R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R112 | 0R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R114 | 0R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R116 | 680R | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R120 | 47k | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R121 | 47k | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R122 | 47k | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R123 | 47k | SMD Resistor TK50 | 0805 | . | | | | | | | |
| R124 | 47k | SMD Resistor TK50 | 0805 | . | | | | | | | |
| C1 | 1nF | SMD Chip Capacitor NP0/COG | 0603 | 10 | | KEM COG0603 1,0N | 0,01 | | | | |
| C1A | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C1B | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C1C | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C1D | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C2 | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C3 | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C4 | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C5 | 220uF | SMD Tantal-ELKO 10V | TA-C | 5 | | TAJ 6032 220/10 | 0,46 | | | | |
| C6 | 220uF | SMD Tantal-ELKO 10V | TA-C | . | | | | | | | |
| C7 | 470nF | SMD Chip Capacitor NP0/COG | 0603 | 4 | | NPO 0603 CD 470N | 0,04 | | | | |
| C8 | 470nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C9 | 220uF | SMD Alu-Elko 16V low ESR | E_SMD_0608 | 6 | | VF 220/16 P- D8 | 0,3 | | | | |
| C10 | 100nF | SMD Chip Capacitor X7R | 0603 | 63 | | X7R 0603FCF 100N | 0,04 | | | | |
| C11 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | |
| C12 | 10uF | SMD Tantal-ELKO 16V | TA-B 3,5 x 2,8 | 9 | | T494B 10U 16 | 0,51 | | | | |
| C13 | 10uF | SMD Tantal-ELKO 16V | TA-B 3,5 x 2,8 | . | | | | | | | |
| C14 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | |
| C15 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | |
| C16 | 10uF | SMD Tantal-ELKO 16V | TA-B 3,5 x 2,8 | . | | | | | | | |
| C17 | 10uF | SMD Tantal-ELKO 16V | TA-B 3,5 x 2,8 | . | | | | | | | |
| C18 | 1uF | SMD Chip Capacitor NP0/COG | 0603 | 8 | | NPO 0603 CE 1,0U | 0,04 | | | | |
| C19 | 1uF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C20 | 470nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C21 | 1nF | SMD Chip Capacitor NP0/COG | 0603 | . | | | | | | | |
| C22 | 10uF | SMD Tantal-ELKO 16V | TA-B 3,5 x 2,8 | . | | | | | | | |
| C23 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | |
| C24 | 4.7uF | SMD Tantal-ELKO | TA-A 3,2 x 1,6 | 1 | | T491A 4,7U 16 | 0,04 | | | | |
| C25 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | |
| C26 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | |

| | | | | | | | | | | | | |
|------|-------|----------------------------|----------------|----|--|--|------------------|------|--|--|--|--|
| C27 | 220pF | SMD Chip Capacitor NPO/COG | 0805 | 2 | | | NPO 0805 BG 220P | 0,04 | | | | |
| C28 | 220pF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C29 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C30 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C31 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C32 | 220uF | SMD Alu-Elko 16V low ESR | E_SMD_0608 | . | | | | | | | | |
| C32B | 220uF | SMD Alu-Elko 16V low ESR | E_SMD_0608 | . | | | | | | | | |
| C33 | 220uF | SMD Alu-Elko 16V low ESR | E_SMD_0608 | . | | | | | | | | |
| C34 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C35 | 220uF | SMD Alu-Elko 16V low ESR | E_SMD_0608 | . | | | | | | | | |
| C36 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | 10 | | | NPO G0805 1,0N | 0,04 | | | | |
| C37 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C38 | 1nF | SMD Chip Capacitor NPO/COG | 0603 | . | | | | | | | | |
| C39 | 220uF | SMD Tantal-ELKO 10V | TA-C | . | | | | | | | | |
| C40 | 470nF | SMD Chip Capacitor NPO/COG | 0603 | . | | | | | | | | |
| C41 | 10uF | SMD Tantal-ELKO 16V | TA-B 3,5 x 2,8 | . | | | | | | | | |
| C42 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C43 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C44 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C45 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C46 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C47 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C48 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C49 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C50 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C51 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C52 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C53 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C54 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C55 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C56 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C57 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C58 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C59 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C60 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C61 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C62 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C63 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C64 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C65 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C66 | 100nF | SMD Chip Capacitor X7R | 0603 | . | | | | | | | | |
| C67 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C68 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C69 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C70 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C71 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C72 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C73 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |
| C74 | 1nF | SMD Chip Capacitor NPO/COG | 0805 | . | | | | | | | | |

