

Hier findet ihr die aktuelle Bauteilleiste für den OVI40-SDR.

# UI-Platine:

| BOM OVI40-SDR UI last version |                | 01-01-2018                      | 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                      | SO08            | 1                    |          |       | 24LC1026_ISN  |       | 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 |       |                      |       |                    |       |
| D2                            | red            | LED                             | LED_3MM         | 1                    | 276-4977 | 0,361 | LED 3MM ST RT |       |                      |       |                    |       |
| D3                            | blue           | LED                             | LED_3MM         | 1                    | 276-4975 | 0,443 | LED 3MM ST BL |       |                      |       |                    |       |
| 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  |               |       |                      |       | 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  |                      |       |                    |       |
| R1A                           | 100R           | SMD Resistor TK50               | 0603            | 13                   |          |       | SMD-0603 100  | 0,03  |                      |       |                    |       |
| R1B                           | 0R             | SMD Resistor TK50               | 0805            | 9                    |          |       | SMD-0805 0    | 0,02  |                      |       |                    |       |
| R2                            | 1k             | SMD Resistor TK50               | 0603            | 7                    |          |       | SMD-0603 1,0k | 0,03  |                      |       |                    |       |
| R3                            | 100R           | SMD Resistor TK50               | 0603            | 2                    |          |       | SMD-0603 0    | 0,03  |                      |       |                    |       |
| R4                            | 1k             | SMD Resistor TK50               | 0603            | .                    |          |       |               |       |                      |       |                    |       |
| R4B1                          | 2R2            | SMD Resistor TK50               | 1206            | 4                    |          |       | SMD 1/4W 2,2  | 0,03  |                      |       |                    |       |
| 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  |                      |       |                    |       |
| R10                           | 4k7            | SMD Resistor TK50               | 0603            | 1                    |          |       | SMD-0603 4,7k | 0,02  |                      |       |                    |       |
| R11                           | 4k7            | SMD Resistor TK50               | 0805            | .                    |          |       |               |       |                      |       |                    |       |
| R12                           | 4k7            | SMD Resistor TK50               | 0805            | .                    |          |       |               |       |                      |       |                    |       |
| R13                           | 47R            | SMD Resistor TK50               | 0603            | 7                    |          |       | SMD-0603 47   | 0,03  |                      |       |                    |       |
| 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            | .                    |          |       |               |       |                      |       |                    |       |
| R24                           | 680R           | SMD Resistor TK50               | 0805            | 4                    |          |       | SMD-0805 680  | 0,02  |                      |       |                    |       |
| 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            | .                    |          |       |               |       |                      |       |                    |       |

Last update:  
10.01.2018  
10:11

projekte:ovi40-sdr:bom <https://www.amateurfunk-sulingen.de/wiki/doku.php?id=projekte:ovi40-sdr:bom&rev=1515579118>

|      |       |                            |                |    |  |                  |      |  |  |  |
|------|-------|----------------------------|----------------|----|--|------------------|------|--|--|--|
| 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 |  |  |  |
| 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 NPO/COG | 0603           | 10 |  | KEM COG0603 1,0N | 0,01 |  |  |  |
| C1A  | 1nF   | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C1B  | 1nF   | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C1C  | 1nF   | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C1D  | 1nF   | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C2   | 1nF   | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C3   | 1nF   | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C4   | 1nF   | SMD Chip Capacitor NPO/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 NPO/COG | 0603           | 4  |  | NPO 0603 CD 470N | 0,04 |  |  |  |
| C8   | 470nF | SMD Chip Capacitor NPO/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           | 61 |  | 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 NPO/COG | 0603           | 8  |  | NPO 0603 CE 1,0U | 0,04 |  |  |  |
| C19  | 1uF   | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C20  | 470nF | SMD Chip Capacitor NPO/COG | 0603           | .  |  |                  |      |  |  |  |
| C21  | 1nF   | SMD Chip Capacitor NPO/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           | .  |  |                  |      |  |  |  |





