

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

UI-Platine:

Achtung! Diese Liste ist vorläufig! Während des Betatests werden sich mit Sicherheit noch Änderungen ergeben.

z.B. ist der SD-Cardreader, der hier aufgeführt ist, nur für die Betaserie gültig. Er wird in der endgültigen Fassung durch einen anderen ersetzt werden.

| BOM OVI40-SDR UI V1.7 | | 24-09-2017 | DF80E | | | | Distributor | | | | | | |
|-----------------------|----------------|---------------------------------|------------------|--------|----------|-------|---------------|-------|----------------------|-------|--------------------|-------|--|
| 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 | | 579-24LC1026/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_MOD1 | 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 | 0603 | 3 | | | SMD-0603 0 | 0,03 | | | | | |
| R2 | 1k | SMD Resistor TK50 | 0603 | 7 | | | SMD-0603 1,0k | 0,03 | | | | | |
| 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 | | | | | |
| 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 | . | | | | | | | | | |

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|------|-------|----------------------------|----------------|----|--|--|------------------|------|--|--|--|--|
| 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 | . | | | | | | | | |

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|---------|-------------------------|-----------------------------------|-------------------|----|----------|------|--------------|------|--|--|--|--|--|--|--|--|--|--|-------------------------|------|
| S8 | SP | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S9 | M1 | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S10 | F3 | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S11 | F1 | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S12 | F2 | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S13 | F4 | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S14 | BP | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S15 | F5 | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S16 | G1 | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S17 | Power | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| S18 | not assigned yet | SMD Pushbutton KSC941J | | . | | | | | | | | | | | | | | | | |
| J1 | 1503_07 | Audio Plug 3,5mm | 1503_07 | 3 | 121-7016 | 2,26 | LUM 1503-07 | 0,59 | | | | | | | | | | | | |
| J2 | 1503_07 | Audio Plug 3,5mm | 1503_07 | . | | | | | | | | | | | | | | | | |
| J3 | 1503_07 | Audio Plug 3,5mm | 1503_07 | . | | | | | | | | | | | | | | | | |
| J4 | 1503_09 | Audio Plug w. 2 switches | 1503_09 | 1 | 124-3244 | 2,04 | LUM 1503-09 | 0,99 | | | | | | | | | | | | |
| E1 | EC12E_SW | Alps Encoder with push function | ALPS_EC12E_SW | 4 | 152-0813 | 1,86 | STEC12E08 | 2,1 | | | | | | | | | | | | |
| E2 | EC12E_SW | Alps Encoder with push function | ALPS_EC12E_SW | . | | | | | | | | | | | | | | | | |
| E3 | EC12E_SW | Alps Encoder with push function | ALPS_EC12E_SW | . | | | | | | | | | | | | | | | | |
| E4 | EC12E_SW | Alps Encoder with push function | ALPS_EC12E_SW | . | | | | | | | | | | | | | | | | |
| | Button Cap | Cap grey | BTNKSC920 | 4 | | | | | | | | | | | | | | | CKN10429-ND | 0,27 |
| | Button Cap | Cap red | BTNKSC940 | 2 | | | | | | | | | | | | | | | CKN10428-ND | 0,27 |
| | Button Cap | Cap black | BTNKSC990 | 2 | | | | | | | | | | | | | | | CKN10426-ND | 0,27 |
| | Button Cap | Cap white | BTNKSC980 | 10 | | | | | | | | | | | | | | | CKN10427-ND | 0,27 |
| JP1 | 30 Pin Board to Board | Pinheader-1x30 | 1x30 | 1 | | | 3x 40-polig | | | | | | | | | | | | | |
| JP2 | 25 Pin Board to Board | Pinheader-1x25 | 1x25 | 1 | | | | | | | | | | | | | | | | |
| JP3 | 6 Pin Board to Board | Pinheader-1x06 | 1x06 | 4 | | | | | | | | | | | | | | | | |
| P1 | SW 12V | Pinheader-1x02 | 1x02 | 6 | | | | | | | | | | | | | | | | |
| P2 | Speaker left | Pinheader-1x02 | 1x02 | . | | | | | | | | | | | | | | | | |
| P7 | Speaker right | Pinheader-1x02 | 1x02 | . | | | | | | | | | | | | | | | | |
| P6 | DFU mode Jumper | Pinheader-1x02 | 1x02 | . | | | | | | | | | | | | | | | | |
| JP8 | DEBUG | Pinheader-1x06 | 1x06 | . | | | | | | | | | | | | | | | | |
| JP17 | short S17 | Pinheader-1x02 | 1x02 | . | | | | | | | | | | | | | | | | |
| JP5 | ext. USB Host | Pinheader-1x04 | 1x04 | 2 | | | | | | | | | | | | | | | | |
| JP6 | ext. USB DFU | Pinheader-1x04 | 1x04 | . | | | | | | | | | | | | | | | | |
| JP4 | ext. Audio | Pinheader-1x06 | 1x06 | . | | | | | | | | | | | | | | | | |
| JP7 | ext. Audio | Pinheader-1x06 | 1x06 | . | | | | | | | | | | | | | | | | |
| P3 | alternative Bridge Vbat | Pinheader-1x02 | 1x02 | . | | | | | | | | | | | | | | | | |
| LCD1 | | Pinheader-2x17 | 2x17 | 1 | | | | | | | | | | | | | | | | |
| LCD/PCB | | Holeheader low profile 2x17 | BL 2X17G 2,54 | 1 | | | | | | | | | | | | | | | | |
| BU2 | MOLEX_SD_49225-0821 | MICROSD_Cardreader | Molex 503182-1853 | 1 | 176-4375 | 1,99 | | | | | | | | | | | | | HR1942CT-ND | 2,05 |
| | optional parts | | | | | | | | | | | | | | | | | | | |
| D4 | SS16SMA | Vishay General Semiconductor SS16 | DIODE_SMA | | | | | | | | | | | | | | | | | |
| IC9 | CY15B104Q | SPI FRAM | SO08 | | | | | | | | | | | | | | | | | |
| IC11 | SST25VF04B | SPI FLASH 2,7V, 4Mbit | SO08 | | | | SST 25VF040B | 0,97 | | | | | | | | | | | SST25VF040B-50-4I-SAF-N | 0,82 |

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