

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                      | SO08             | 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_MOD1 | 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 ¼W 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-ERI-U060R00V     |       |                    |       |

|      |       |                               |                |    |  |                     |      |                     |  |  |  |
|------|-------|-------------------------------|----------------|----|--|---------------------|------|---------------------|--|--|--|
| R24  | 680R  | SMD Resistor TK50             | 0805           | 4  |  | SMD-0805<br>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<br>NP0/COG | 0603           | 10 |  | KEM COG0603<br>1,0N | 0,01 |                     |  |  |  |
| C1A  | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C1B  | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C1C  | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C1D  | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C2   | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C3   | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C4   | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C5   | 220uF | SMD Tantal-ELKO<br>10V        | TA-C           | 5  |  | TAJ 6032<br>220/10  | 0,46 |                     |  |  |  |
| C6   | 220uF | SMD Tantal-ELKO<br>10V        | TA-C           | .  |  |                     |      |                     |  |  |  |
| C7   | 470nF | SMD Chip Capacitor<br>NP0/COG | 0603           | 4  |  | NPO 0603 CD<br>470N | 0,04 |                     |  |  |  |
| C8   | 470nF | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C9   | 220uF | SMD Alu-Elko 16V low<br>ESR   | E_SMD_0608     | 6  |  | VF 220/16 P-<br>D8  | 0,3  |                     |  |  |  |
| C10  | 100nF | SMD Chip Capacitor<br>X7R     | 0603           | 63 |  | X7R 0603FCF<br>100N | 0,04 |                     |  |  |  |
| C11  | 100nF | SMD Chip Capacitor<br>X7R     | 0603           | .  |  |                     |      |                     |  |  |  |
| C12  | 10uF  | SMD Tantal-ELKO<br>16V        | TA-B 3,5 x 2,8 | 9  |  | T494B 10U 16        | 0,51 |                     |  |  |  |
| C13  | 10uF  | SMD Tantal-ELKO<br>16V        | TA-B 3,5 x 2,8 | .  |  |                     |      |                     |  |  |  |
| C14  | 100nF | SMD Chip Capacitor<br>X7R     | 0603           | .  |  |                     |      |                     |  |  |  |
| C15  | 100nF | SMD Chip Capacitor<br>X7R     | 0603           | .  |  |                     |      |                     |  |  |  |
| C16  | 10uF  | SMD Tantal-ELKO<br>16V        | TA-B 3,5 x 2,8 | .  |  |                     |      |                     |  |  |  |
| C17  | 10uF  | SMD Tantal-ELKO<br>16V        | TA-B 3,5 x 2,8 | .  |  |                     |      |                     |  |  |  |
| C18  | 1uF   | SMD Chip Capacitor<br>NP0/COG | 0603           | 8  |  | NPO 0603 CE<br>1,0U | 0,04 |                     |  |  |  |
| C19  | 1uF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C20  | 470nF | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C21  | 1nF   | SMD Chip Capacitor<br>NP0/COG | 0603           | .  |  |                     |      |                     |  |  |  |
| C22  | 10uF  | SMD Tantal-ELKO<br>16V        | TA-B 3,5 x 2,8 | .  |  |                     |      |                     |  |  |  |
| C23  | 100nF | SMD Chip Capacitor<br>X7R     | 0603           | .  |  |                     |      |                     |  |  |  |
| C24  | 4.7uF | SMD Tantal-ELKO               | TA-A 3,2 x 1,6 | 1  |  | T491A 4,7U<br>16    | 0,04 |                     |  |  |  |
| C25  | 100nF | SMD Chip Capacitor<br>X7R     | 0603           | .  |  |                     |      |                     |  |  |  |

|      |       |                            |                |    |  |  |                  |      |  |  |  |  |
|------|-------|----------------------------|----------------|----|--|--|------------------|------|--|--|--|--|
| C26  | 100nF | SMD Chip Capacitor X7R     | 0603           | .  |  |  |                  |      |  |  |  |  |
| C27  | 220pF | SMD Chip Capacitor NP0/COG | 0805           | 2  |  |  | NPO 0805 BG 220P | 0,04 |  |  |  |  |
| C28  | 220pF | SMD Chip Capacitor NP0/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 NP0/COG | 0805           | 10 |  |  | NPO G0805 1,0N   | 0,04 |  |  |  |  |
| C37  | 1nF   | SMD Chip Capacitor NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |
| C38  | 1nF   | SMD Chip Capacitor NP0/COG | 0603           | .  |  |  |                  |      |  |  |  |  |
| C39  | 220uF | SMD Tantal-ELKO 10V        | TA-C           | .  |  |  |                  |      |  |  |  |  |
| C40  | 470nF | SMD Chip Capacitor NP0/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 NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |
| C68  | 1nF   | SMD Chip Capacitor NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |
| C69  | 1nF   | SMD Chip Capacitor NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |
| C70  | 1nF   | SMD Chip Capacitor NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |
| C71  | 1nF   | SMD Chip Capacitor NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |
| C72  | 1nF   | SMD Chip Capacitor NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |
| C73  | 1nF   | SMD Chip Capacitor NP0/COG | 0805           | .  |  |  |                  |      |  |  |  |  |

|      |              |                            |                |    |          |      |  |                  |                |  |               |      |  |
|------|--------------|----------------------------|----------------|----|----------|------|--|------------------|----------------|--|---------------|------|--|
| C74  | 1nF          | SMD Chip Capacitor NP0/COG | 0805           | .  |          |      |  |                  |                |  |               |      |  |
| C74A | 220uF        | SMD Tantal-ELKO 10V        | TA-C           | .  |          |      |  |                  |                |  |               |      |  |
| C75  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C76  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C77  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C78  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C79  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C80  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C81  | 1uF          | SMD Chip Capacitor NP0/COG | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C82  | 1uF          | SMD Chip Capacitor NP0/COG | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C83  | 1uF          | SMD Chip Capacitor NP0/COG | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C84  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C85  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C86  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C87  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C88  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C89  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C90  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C91  | 2,2uF        | SMD Chip Capacitor NP0/COG | 0603           | 2  |          |      |  | NPO 0603 CC 2,2U | 0,04           |  |               |      |  |
| C92  | 2,2uF        | SMD Chip Capacitor NP0/COG | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C93  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C94  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C95  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C96  | 220uF        | SMD Alu-Elko 16V low ESR   | E_SMD_0608     | .  |          |      |  |                  |                |  |               |      |  |
| C97  | 10uF         | SMD Tantal-ELKO 16V        | TA-B 3,5 x 2,8 | .  |          |      |  |                  |                |  |               |      |  |
| C98  | 10uF         | SMD Tantal-ELKO 16V        | TA-B 3,5 x 2,8 | .  |          |      |  |                  |                |  |               |      |  |
| C99  | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C101 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C102 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C104 | 1uF          | SMD Chip Capacitor NP0/COG | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C105 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C106 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C107 | 1uF          | SMD Chip Capacitor NP0/COG | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C108 | 1uF          | SMD Chip Capacitor NP0/COG | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C109 | 220pF        | SMD Chip Capacitor NP0/COG | 0603           | 1  |          |      |  | NPO 0603AAF 220P | 0,04           |  |               |      |  |
| C111 | 10uF         | SMD Tantal-ELKO 16V        | TA-B 3,5 x 2,8 | .  |          |      |  |                  |                |  |               |      |  |
| C112 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C120 | 220uF        | SMD Tantal-ELKO 10V        | TA-C           | .  |          |      |  |                  |                |  |               |      |  |
| C121 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C122 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C123 | 100nF        | SMD Chip Capacitor X7R     | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| C124 | 8,2pF - 10pF | SMD Chip Capacitor         | 0603           | 2  |          |      |  | NPO-G0603 10P    | 0,04           |  |               |      |  |
| C125 | 8,2pF - 10pF | SMD Chip Capacitor         | 0603           | .  |          |      |  |                  |                |  |               |      |  |
| S1   | G3           | SMD Pushbutton KSC941J     |                | 18 | 243-5157 | 0,64 |  |                  | 611-KSC941JLFS |  | CKN10433CT-ND | 0,55 |  |
| S2   | G2           | SMD Pushbutton KSC941J     |                | .  |          |      |  |                  |                |  |               |      |  |
| S3   | M2           | SMD Pushbutton KSC941J     |                | .  |          |      |  |                  |                |  |               |      |  |
| S4   | BM           | SMD Pushbutton KSC941J     |                | .  |          |      |  |                  |                |  |               |      |  |

|         |                         |                                   |                   |    |          |      |              |                   |                      |  |                         |      |
|---------|-------------------------|-----------------------------------|-------------------|----|----------|------|--------------|-------------------|----------------------|--|-------------------------|------|
| S5      | G4                      | SMD Pushbutton KSC941J            |                   | .  |          |      |              |                   |                      |  |                         |      |
| S6      | M3                      | SMD Pushbutton KSC941J            |                   | .  |          |      |              |                   |                      |  |                         |      |
| S7      | SM                      | SMD Pushbutton KSC941J            |                   | .  |          |      |              |                   |                      |  |                         |      |
| 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              |    |          |      |              | 727-CY15B104Q-SXI |                      |  |                         |      |
| IC11    | SST25VF04B              | SPI FLASH 2,7V, 4Mbit             | SO08              |    |          |      | SST 25VF040B | 0,97              | 579-25VF040B504IS2AE |  | SST25VF040B-50-4I-SAF-N | 0,82 |

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Last update: 08.12.2017 12:34

