

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	Reicht	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	NCP501DT50G	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	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	.								



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	.							



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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