Platine Interface Utilisateur (UI pcb) :

Attention! Cette liste est préliminaire! Il y aura certainement des changements durant le test bêta.

par exemple, le lecteur de carte SD répertorié ici n'est valide que pour la série bêta. Il sera remplacé par un autre dans la version finale.

Remarque : le libellé des composants n'est pas traduit pour faciliter la maintenance et la commande sur les sites internationaux

BOM OVI40-SDR UI V1.7		24-09-2017	DF8OE			Distributeur / Prix						
Part	**Value**	**Description**	**Package**	**Quant.**	**FARNELL**	**Prix**	**Reichelt**	**Prix**	**Mouser**	**Prix**	**Digikey**	**Prix**
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-LP5907QMFX-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 ¼W 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	.								
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 NP0/COG	0603	10			KEM C0G0603 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	62			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 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	.								
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					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-1×30	1×30	1			3x 40-polig					
JP2	25 Pin Board to Board	Pinheader-1×25	1×25	1								
JP3	6 Pin Board to Board	Pinheader-1×06	1×06	4								
P1	SW_12V	Pinheader-1×02	1×02	6								
P2	Speaker left	Pinheader-1×02	1×02	.								
P7	Speaker right	Pinheader-1×02	1×02	.								
P6	DFU mode Jumper	Pinheader-1×02	1×02	.								
JP8	DEBUG	Pinheader-1×06	1×06	.								
JP17	short S17	Pinheader-1×02	1×02	.								
JP5	ext. USB Host	Pinheader-1×04	1×04	2								
JP6	ext. USB DFU	Pinheader-1×04	1×04	.								
JP4	ext. Audio	Pinheader-1×06	1×06	.								
JP7	ext. Audio	Pinheader-1×06	1×06	.								
P3	alternative Bridge Vbat	Pinheader-1×02	1×02	.								
LCD1		Pinheader-2×17	2×17	1								
LCD/PCB		Holeheader low profile 2×17	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

From:
https://www.amateurfunk-sulingen.de/wiki/ - **Afu - Wiki des DARC OV Sulingen I40**

Permanent link:
https://www.amateurfunk-sulingen.de/wiki/doku.php?id=fr:projekte:ovi40-sdr:bom&rev=1511761359

Last update: **27.11.2017 05:42**