

**Materialliste für den
Odyssey II**

V1.1

Erstellt von HB9TRT, 19.08.2020 für Board Revision DF-05-18-US

Board				Projekt				
L	Typ		Lieferant 1	ArtNummer	Hersteller Nr.	Quantity	Preis 1 Stk	Total Preis
100nH	0603	2	Digikey	C1160808-R10JCT-ND	C1160808-R10J	2	0.10	0.20
100nH	1008	1	Digikey	AISC-1008-R10G-TCT-ND	AISC-1008-R10G-T	1	0.33	0.33
120nH	1008	1	Digikey	AISC-1008-R12G-TCT-ND	AISC-1008-R12G-T	1	0.33	0.33
150nH	1008	1	Digikey	AISC-1008-R15G-TCT-ND	AISC-1008-R15G-T	1	0.33	0.33
1uH	0806	3	Digikey	490-10614-1-ND	DFE201610R-H-1R0M=P2	3	0.42	1.26
2.2uH	1008	1	Digikey	490-5114-1-ND	LQM2HPN2R2MG0L	1	0.32	0.32
Ferrite Bead (600Ohm/100Mhz)	1206	2	Digikey	490-1057-1-ND	BLM31PG601SN1L	2	0.29	0.58
Ferrite Bead (100Ohm/100Mhz)	1206	3	Digikey	240-2408-1-ND	HI1206N101R-10	3	0.19	0.57
Ferrite Bead (470Ohm/100Mhz)	0603	22	Digikey	490-5223-1-ND	BLM18PG471SN1D	22	0.10	2.20
Powerline Choke CMC 2.7UH 1.5A 2LN 1 KOHM		1	Digikey	SRF0504-102YCT-ND	SRF0504-102Y	1	1.46	1.46
R	Typ		Lieferant	ArtNummer			Preis	CHF 7.58
4.7 Ohm	0805	1	Digikey	1276-5171-1-ND	RC2012F4R7CS		0.13	0.13
25 Ohm (24.9 Ohm)	0603	5	Digikey	311-24.9HRCT-ND	RC0603FR-0724R9L		0.10	0.50
50 Ohm	0603	1	Digikey	541-3318-1-ND	CRCW060350R0FKEA		0.09	0.09
100 Ohm	0603	2	Digikey	311-100HRCT-ND	RC0603FR-07100RL		0.09	0.18
200 Ohm	0603	8	Digikey	311-2.20KHRCT-ND	RC0603FR-072K2L		0.02	0.18
220 Ohm	0603	1	Digikey	311-2.20KHRCT-ND	RC0603FR-072K2L		0.10	0.10
270 Ohm	0603	2	Digikey	749-1629-1-ND	MCT06030C2700FP500		0.16	0.32
340 Ohm / 1W	2512	1	Digikey	RMCF2512FT340RCT-ND	RMCF2512FT340R		0.34	0.34
470 Ohm	0603	2	Digikey	311-470GRCT-ND	RC0603JR-07470RL		0.09	0.18
499 Ohm	0603	2	Digikey	RG16P499BCT-ND	RG1608P-4990-B-T5		0.35	0.70
1k	0603	13	Digikey	311-1.00KHRCT-ND	RC0603FR-071KL		0.02	0.26
2k	0603	6	Digikey	311-2.0KGRCT-ND	RC0603JR-072KL		0.10	0.60
2.2k	0603	10	Digikey	311-2.20KHRCT-ND	RC0603FR-072K2L		0.02	0.20
3.3k	0603	3	Digikey	311-3.30KHRCT-ND	RC0603FR-073K3L		0.09	0.27
4.7k	0603	10	Digikey	311-4.70KHRCT-ND	RC0603FR-074K7L		0.08	0.82
10k	0603	18	Digikey	YAG2122CT-ND	AT0603FRE0710KL		0.14	2.47
12.1k	0603	1	Digikey	RMCF0603FT12K1DKR-ND	RMCF0603FT12K1		0.09	0.09
18k	0603	2	Digikey	A130431CT-ND	CRGP0603F18K		0.09	0.18
47k	0603	1	Digikey	YAG4736CT-ND	RT0603BRE0747KL		0.38	0.38
100k	0603	3	Digikey	MCT0603-100K-CFCT-ND	MCT06030C1003FP500		0.16	0.48
130k	0603	1	Digikey	2019-RK73H1JTTD1303FCT-ND	RK73H1JTTD1303F		0.09	0.09
680k	0603	1	Digikey	749-1673-1-ND	MCT06030C6803FP500		0.16	0.16
100k NTC	0603	1	Digikey	P12019CT-ND	ERT-J1VS104JA		0.23	0.23
Trimmer 10k		1	Digikey	SM-31TW103CT-ND	SM-31TW103		3.01	3.01
4.7k Resistorarrays		3	Digikey	Y4103CT-ND	EXB-V8V103JV		0.13	0.39
220 Ohm Resistorarrays		4	Digikey	Y4221CT-ND	EXB-V8V221JV		0.13	0.52
RES 340 OHM 1% 1W	2512	1	Digikey	RMCF2512FT340RCT-ND	RMCF2512FT340R		0.34	0.34
C	Typ		Lieferant	ArtNummer			Preis	CHF 13.20
12pF 50V	0603	3	Digikey	1276-2175-1-ND	CL10C120FB8NNNC		0.2200	0.66
39pF 50V	0603	1	Digikey	1276-1087-1-ND	1276-1087-1-ND		0.1000	0.10
56pF	0603	1	Digikey	311-1066-1-ND	CC0603JRNPO9BN560		0.0900	0.09
75pF 50V	0603	1	Digikey	1276-2335-1-ND	CL10C750JB8NNNC		0.1000	0.10
91pF	0603	2	Digikey	311-3978-1-ND	CC0603JRNPO9BN910		0.1100	0.22
100pF 50V	0603	4	Digikey	1276-1008-1-ND	CL10C101JB8NNNC		0.1000	0.40
110pF	0603	1	Digikey	311-3961-1-ND	CC0603JRNPO9BN111		0.0900	0.09
1nF 50V	0603	10	Digikey	1276-1921-1-ND	CL10B103KB8NCNC		0.0200	0.20
10nF	0603	30	Digikey	1276-1921-1-ND	CL10B103KB8NCNC		0.0330	0.99
47nF 50V	0603	1	Digikey	311-1427-1-ND	CC0603KRX7R9BB473		0.0900	0.09
0.1uF 50V	1206	8	Digikey	1276-6731-1-ND	CL31B104KBPWPNE		0.4700	3.76
0.1uF 50V	0603	100	Digikey	1276-1000-1-ND	CL10B104KB8NNNC		0.0130	1.30
2.2uF	0603	6	Digikey	1276-1134-1-ND	CL10B225KP8NNNC		0.1200	0.72
4.7uF	0603	35	Digikey	1276-1045-1-ND	CL10A475KQ8NNNC		0.0236	0.83
10uF 25V	0805	5	Digikey	1276-2890-1-ND	CL21A106KAFN3NE		0.2300	1.15
CAP ALUM 470UF 20% 16V	SMD	4	Digikey	493-6372-1-ND	UCD1C471MNL1GS		0.6400	2.56
CAP ALUM 470UF 20% 10V SMD	SMD	2	Digikey	493-14524-1-ND	UCM1A471MCL1GS		0.7700	1.54
CAP TANT 100UF 20% 4V	1411	3	Digikey	478-8135-1-ND	F930G107MBA		0.4800	1.44
CAP ALUM 100UF 20% 16V	SMD	1	Digikey	493-2105-1-ND	UWX1C101MCL1GB		0.3200	0.32
TRANSISTOREN	Typ		Lieferant	ArtNummer			Preis	CHF 16.56
MOSFET P-CH 20V 1A	SOT-23	2	Digikey	NTR1P02T1GOSCT-ND	NTR1P02T1G		0.46	0.92
MOSFET N-CH 60V 0.36A	SOT-23	1	Digikey	1727-4692-1-ND	2N7002P,215		0.16	0.16
FET RF 40V 870MHZ	TO-243AA	2	Digikey	497-8291-1-ND	PD85004		2.96	5.92
DIODEN	Typ		Lieferant	ArtNummer			Preis	CHF 7.00
TVS DIODE 12V 19.9V	DO214AC	2	Digikey	SMAJ12ALFCT-ND	SMAJ12A		0.34	0.68
DIODE ARRAY SCHOTTKY 30V	SOT23	7	Digikey	568-1614-1-ND	BAT54S,215		0.13	0.91
LED GREEN CLEAR	0603	4	Digikey	732-4971-1-ND	150060GS75000		0.13	0.52

DIODE SCHOTTKY 100V 8A	DO-214AB	1	Digikey	SK810L-TPMSCT-ND	SK810L-TP		0.65	0.65
MICROCHIPS	Typ		Lieferant	ArtNummer			Preis	CHF 2.76
OPAMP CFA 2 CIRCUIT	8SOIC	1	Digikey	OPA2677U-ND	OPA2677U		5.12	5.12
REG BUCK 5V 2A	16QFN	1	Digikey	296-39448-1-ND	TPS62143RGTR		1.77	1.77
REG LINEAR 5V 500MA	SOT223-4	1	Digikey	296-27138-5-ND	UA78M05CDCY		0.59	0.59
REG BUCK 1.2V 1.5A	SOT23-5	2	Digikey	SC189CSKCT-ND	SC189CSKTRT		0.97	1.94
REG BUCK 3.3V 1.5A	SOT23-5	1	Digikey	SC189ZSKCT-ND	SC189ZSKTRT		1.10	1.10
LAN TRANSCEIVER FULL 4/4	48QFN	1	Digikey	KSZ9031RNXCCT-ND	KSZ9031RNXCCT-TR		2.67	2.67
REG LINEAR 1.8V 300MA	SOT23-5	2	Digikey	MCP1824T-1802E/OTCT-ND	MCP1824T-1802E/OT		0.40	0.80
REG LINEAR 1.8V 200MA	SOT23-3	1	Digikey	MCP1700T1802ETTCT-ND	MCP1700T-1802E/TT		0.35	0.35
REG LINEAR 2.5V 250MA	SOT23-3	1	Digikey	MCP1700T-2502E/TTCT-ND	MCP1700T-2502E/TT		0.35	0.35
ADC 12BIT SAR	8SOIC	1	Digikey	MCP3202-CI/SN-ND	MCP3202-CI/SN		2.40	2.40
FLASH 64M SPI 104MHZ	8SOIC	1	Digikey	W25Q64FVSSIG-ND	W25Q64FVSSIG		0.87	0.87
Cyclone IV FPGA	484FBGA	1	Digikey	544-2813-ND	EP4CE55F23C8N		109.63	109.63
EEPROM 2K SPI 10MHZ	SOT23-6	1	Digikey	25AA02E48T-I/OTCT-ND	25AA02E48T-I/OT		0.38	0.38
ADC 16BIT PIPELINED	48QFN	2	Digikey	LTC2165CUK#PBF-ND	LTC2165CUK#PBF		83.93	167.86
ADC DRIVER	16QFN	2	Digikey	LTC6401IUD-14#PBF-ND	LTC6401IUD-14#PBF		8.05	16.10
REG LINEAR 3.3V 300MA	SOT23-6	4	Digikey	MCP1824T-3302E/OTCT-ND	MCP1824T-3302E/OT		0.40	1.60
SWITCH SPDT	SOT23-6	1	Digikey	296-14908-1-ND	SN74LVC1G3157DBVR		0.41	0.41
DAC 14BIT A-OUT	28TSSOP	1	Digikey	AD9744ARUZ-ND	AD9744ARUZ		17.21	17.21
STEREO AUDIO CODEC	28TSSOP	1	Digikey	296-15031-1-ND	TLV320AIC23BIPWR		7.85	7.85
OPAMP GP 1 CIRCUIT	SOT23-5	1	Digikey	MCP6001T-I/OTCT-ND	MCP6001T-I/OT		0.23	0.23
AMP CLASS AB MONO/STER 1W	8SOIC	1	Digikey	497-2166-5-ND	TDA2822D		2.24	2.24
MCU 8BIT 7KB FLASH	28QFN	1	Digikey	PIC16F1827-I/ML-ND	PIC16F1827-I/ML		1.54	1.54
QUARTZ	Typ		Lieferant	ArtNummer			Preis	CHF 343.01
XTAL OSC VCXO 122.8800MHZ	6-SMD	1	Digikey	SER3906CT-ND	VG-4513CA 122.8800M-GGCT3		9.41	9.41
XTAL OSC TCXO 10.0000MHZ	10-SMD	1	Digikey	887-2498-1-ND	7N-10.000MBP-T		9.20	9.20
XTAL OSC XO 25.0000MHZ	4-SMD	1	Digikey	300-8254-1-ND	ASFL1-25.000MHZ-EC-T		1.24	1.24
RESTMATERIAL	Typ		Lieferant	ArtNummer			Preis	CHF 18.61
PTC 12V 1.5A	1812	1	Digikey	MINISMDC150F12-2CT-ND	MINISMDC150F/12-2		0.52	0.52
PTC 12V 0.1A	0603	1	Digikey	507-1818-1-ND	0ZCM0010FF2G		0.14	0.14
CONN MAGJACK 1PORT 1000 BASE-T		1	Digikey	380-1142-ND	SI-61001-F		5.91	5.91
RF-in Protect		2	Box73		GBLC03©		3	6
Amidon Ferrite core		1	Reichelt		BN43-202		1	1
Amidon Ferrite core		1	Reichelt		BN43-2402		1	1
CONN PWR JACK 1X3.4MM		1	Digikey	CP-040CH-ND	PJ-040CH		0.65	0.65
CONN PWR PLUG 1.1X3.5MM		1	Digikey	CP3-1002-ND	PP3-002C		1.12	1.12
CONN SMA JACK R/A 50 OHM		5	Digikey	A97593-ND	5-1814400-1		2.84	14.2
BALUN 2MHZ-800MHZ 1:4	6SMD	3	Digikey	1465-1318-1-ND	MABAES0061		2.5	7.5
RF SHIELD 0.514"X0.552"		1	Digikey	903-1013-ND	BMI-S-201-C		0.64	0.64
CONN JACK STEREO 3.5M		3	Digikey	CP-3523SJCT-ND	SJ-3523-SMT-TR		0.97	2.91
SWITCH TACTILE SPST-NO 0.02A 15V		1	Digikey	P10883S-ND	EVQ-PF106K		0.22	0.22
CONN HEADER VERT 2POS 2.54MM		1	Digikey	A1921-ND	640456-2		0.1	0.1
LAMP INCAND RT-1 BI-PIN 12V		2	Digikey	CM8097-ND	8097		1.4	2.8
LPF		2	Mini Circuits		RPL-50+		8	16
4 PIN DUAL-FEMALE JUMPER WIRE 30		1	Digikey	1597-1502-ND	110990080		3.27	3.27
CONN MOD JACK 8P8C R/A SHIELDED		1	Digikey	RJLSE4238101TCT-ND	RJLSE4238101T		2.16	2.16
FEMALE SCREWLOCK 4-40 .197"		2	Digikey	SFSO4404NR-ND	SFSO4404NR		0.29	0.58
CONN D-SUB HD RCPT 15POS SMD R/A		1	Digikey	626-1563-ND	33DSMT1-E15SNCT		4.3	4.3
OLED Display		1	Aliexpress	https://www.aliexpress.com/item/32777216785.html?spm=a2g0s.904231			1.4	1.4
Platine		1					15	15
RESTMATERIAL	Typ						Preis	CHF 87.42
				Total			Preis	CHF 496.14