

OSO-BOOK-A1-06

References	Qty	Description	Manufacturer	Manufacturer part no.	Digi-Key Part Number
Unmarked; USB port, top center	1	CONN RCPT USB2.0 MICRO B SMD R/A	Amphenol ICC / FCI	10118193-0001LF	609-4616-1-ND
R1, R3, R7, R8, R28, R29, R30, R31, R32, R33	10	RES SMD 10K OHM 1% 1/8W 0805	Yageo	RC0805FR-0710KL	311-10.0KCRCT-ND
R2, R11, R26	3	RES SMD 100K OHM 1% 1/8W 0805	Yageo	RC0805FR-07100KL	311-100KCRCT-ND
R23, R24, R27	3	RES SMD 1M OHM 5% 1/8W 0805	Yageo	RC0805JR-071ML	311-1.0MARCT-ND
R4, R5, R10, R15, R16, R21, R22, R25	8	RES SMD 1K OHM 5% 1/8W 0805	Yageo	RC0805JR-071KL	311-1.0KARCT-ND
R12	1	RES 0.47 OHM 1% 1/3W 0805	Susumu	RL1220S-R47-F	RL12S.47FCT-ND
R6	1	RES ARRAY 4 RES 100K OHM 1206	Panasonic	EXB-V8V104JV	Y4104CT-ND
R13, R14	2	RES ARRAY 4 RES 10K OHM 1206	Panasonic	EXB-V8V103JV	Y4103CT-ND
R9, R17, R18, R19, R20	5	RES SMD 100 OHM 5% 1/8W 0805	Yageo	RC0805JR-07100RL	311-100ARCT-ND
LED	1	LED RED CLEAR SMD	Lite-On	LTST-C171KRKT	160-1427-1-ND
CHG	1	LED YELLOW CLEAR CHIP SMD	Lite-On	LTST-C171KSKT	160-1428-1-ND
FUL	1	LED GREEN CLEAR SMD	Lite-On	LTST-C171KGKT	160-1426-1-ND
NEOPIX	1	ADDRESS LED DISCRETE SERIAL RGB	Inolux	IN-PI42TASPRPGPB	1830-1206-1-ND
C1, C2, C4, C5, C7, C11, C25, C27, C35	9	CAP CER 10UF 10V X5R 0805	Samsung	CL21A106KPFNNE	1276-1052-1-ND
C13, C32	2	CAP CER 0.1UF (100nF) 25V X7R 0805	Yageo	CC0805KRX7R9BB104	311-1140-1-ND
C24	1	CAP CER 4.7UF 25V X7R 0805	Taiyo Yuden	TMK212AB7475KG-T	587-2990-1-ND
C3, C6, C8, C9, C10, C12, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C26, C28, C29	19	CAP CER 1UF 25V X7R 0805	Samsung	CL21B105KAFNNNE	1276-1066-1-ND
C30, C31	2	CAP CER 100UF 6.3V X5R 1210	Samsung	CL32A107MQVNNNE	1276-1092-1-ND
C33	1	CAP CER 10000PF (10nF) 100V X7R 0805	KEMET	C0805C103K1RACTU	399-1159-1-ND
C34	1	CAP CER 100PF (0.1nF) 50V C0G/NP0 0805	Murata	GRM2165C1H101JA01D	490-1615-1-ND
C36	1	CAP CER 1000PF (1nF) 50V X7R 0805	Samsung	CL21B102KBANNNC	1276-1020-1-ND
FB1, FB2	2	FERRITE BEAD 1 KOHM 0805 1LN	TDK	MMZ2012R102AT000	445-1555-1-ND
D1	1	DIODE SCHOTTKY 20V 1A SOD123L	ON Semiconductor	MBR120ESFT1G	MBR120ESFT1GOSCT-ND
D2, D3, D4	3	DIODE SCHOTTKY 30V 500MA SOD123	ON Semiconductor	MBR0530T1G	MBR0530T1GOSCT-ND
D5, D6	2	DIODE ZENER 3.6V 500MW SOD123	MCC	MMSZ4685-TP	MMSZ4685-TPMSCT-ND
L1	1	FIXED IND 10UH 1.3A 170 MOHM SMD	Vishay	IFSC1515AHER100M01	541-1406-1-ND
Q1	1	MOSFET P-CHAN 24V SOT23	Diodes Inc.	DMP2045U-7	DMP2045U-7DICT-ND
Q2	1	MOSFET N-CH 100V 1.6A SOT-23-3	Infineon	IRLML0100TRPBF	IRLML0100TRPBFCT-ND
U1	1	AP2112-3.3	Diodes Inc.	AP2112K-3.3TRG1	AP2112K-3.3TRG1DICT-ND
U2	1	IC CONTROLR LI-ION 4.2V SOT23-5	Microchip	MCP73831T-2ACI/OT	MCP73831T-2ACI/OTCT-ND
U3	1	IC MCU 32BIT 512KB FLASH 64TQFP	Microchip	ATSAMD51J19A-AUT	ATSAMD51J19A-AUTCT-ND
U4, U6	2	NOR FLASH	GigaDevice	GD25Q16CTIGR	1970-1010-1-ND
U5	1	IC SHIFT REGST 8BIT PI-SO 16SOIC	Nexperia	74HC165D,653	1727-2788-1-ND
U7	1	IC AMP CLASS AB MONO SOT23-8	Maxim Integrated	MAX4468EKA+T	MAX4468EKA+CT-ND
MICROSD	1	CONN MICRO SD CARD PUSH-PUSH R/A	Würth Elektronik	693071010811	732-3819-1-ND
J1	1	CONN JACK 4COND 3.5MM SMD R/A	CUI Devices	SJ-43514-SMT-TR	CP-43514SJCT-ND
DEBUG PORT	1	CONN HEADER SMD 10POS 1.27MM	CNC Tech	3220-10-0300-00	1175-1629-ND
Unmarked; left feather header	1	CONN RCPT 24POS 0.1 GOLD SMD	Amphenol ICC / FCI	89898-312LF	609-3046-ND
Unmarked; right feather header	1	CONN RCPT 32POS 0.1 GOLD SMD	Amphenol ICC / FCI	89898-316LF	609-3050-ND
Unmarked; 2-pin JST connector in BATTERY & CHARGING block	1	CONN HEADER SMD R/A 2POS 2MM	JST	S2B-PH-SM4-TB(LF)(SN)	455-1749-1-ND
PORT_I2C	1	CONN HEADER SMD R/A 4POS 2MM	JST	S4B-PH-SM4-TB(LF)(SN)	455-1751-1-ND
PORT_A8, PORT_A9	2	CONN HEADER SMD R/A 3POS 2MM	JST	S3B-PH-SM4-TB(LF)(SN)	455-1750-1-ND
Flex connector (note: usually Good Display includes a better one with your screen)	1	CONN FPC TOP 24POS 0.50MM R/A	Amphenol ICC / FCI	SFV24R-4STBE1HLF	609-5202-1-ND
BTN_LOCK, BTN_RESET	2	SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch	TL3330AF130QG	EG4388CT-ND
Optional: DNP_NEXT_ALT, DNP_PREV_ALT	2	SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch	TL3330AF130QG	EG4388CT-ND
BTN_PREV/NEXT/UP/DOWN/LEFT/RIGHT/SEL	7	SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch	TL1107AF130WQ	EG2510-ND
SW1	1	SWITCH SLIDE SPDT 200MA 30V	TE Connectivity	1825232-1	A107673-ND
Unmarked; mounts on front side	1	4.2 inch e-paper panel GDEW042T2	Good Display	GDEW042T2	

Display available here: <https://tinyurl.com/GDEW042T2> • <https://tinyurl.com/ws13186> • If shipping options are not available from Good Display, it is also often available from AliExpress; just make sure it is the monochrome (not tri-color) version.