

Table 1. Bill of materials

Item	Qty	Reference	Description	Manufacturer	Order code
1	0	J3 Not Fitted	CONN, HEADER, 3POS, SNGL, 2.54MM, T/H	Harwin	M20-9990345
2	0	TP1, TP4 Not Fitted	CONN, HEADER, 1POS, 2.54MM, T/H	Samtec	TSW-101-26-T-S
3	0	R11 Not Fitted	RES, 0R, Jumper, 1/10W, 0603	Panasonic	ERJ-3GEY0R00V
4	0	R9, R10, R15 Not Fitted	RES, 0R, JUMPER, 1/16W, 0402	Yageo	RC0402JR-070RL
5	0	R5, R6 Not Fitted	RES 2.7KOHM 1% 1/16W 0402	Yageo	RC0402FR-072K7L
6	1	C21 Fitted	CAP, CER, 1uF, 10V, X5R, 0402	Taiyo Yuden	LMK105BJ105KV-F
7	1	C6 Fitted	CAP, CER, 100nF, 20%, 16V, X7R, 0201	Murata	GRM033Z71C104ME14D
8	1	J2 Fitted	CONN, Jack, 22 pos, FFC and FPC, 0.5mm, bottom contact	Hirose	FH12-22S-0.5SH(55)
9	1	J1 Fitted	SMT/THROUGH-HOLE HEADER 5pts 1.27mm	Samtec	TFM-105-01-L-S-RA
10	1	U1 Fitted	VD56G3 Sensor - PLCC package - Fast Boot	ST Microelectronics	VD56G3_PLCC28_FB
11	1	L1 Fitted	FIXED IND, 3.3uH, 1.9A, 178 mOHM, 1008	TDK	VLS252010HBX-3R3M-1
12	1	U5 Fitted	Single supply translating transceiver; 3-state, 1.2V-5.5V, XSON6	Nexperia	74LVC1T45GF
13	1	U4 Fitted	LDO Voltage Regulator 150mA, Fixed 1V8	STMicroelectronics	LD39115J18R
14	1	U3 Fitted	LDO Voltage Regulator 150mA, Fixed 2V8	STMicroelectronics	LD39115J28R
15	1	MP3 Fitted	22 * 3.5mm Adhesive label for serialising as per "Labelling and Packaging Specifications.pdf"	N/A	N/A
16	1	MP4 Fitted	Lens clear F# 1.6 Sensing Area 1/27" Focal 2.8mm M12	Alaud Optical	AB02816MG
17	1	H1 Fitted	Lens holder M12 15mm	Focusafe	FS-BLH040
18	1	CAB1 Fitted	FFC / FPC Cable, 22 pin, 0.5 mm, opposite Sided Contacts, 100 mm,	Würth Electronics	687722050002
19	1	U2 Fitted	400 mA nano-quiescent synchronous step-down converter with digit	STMicroelectronics	ST1PS01BJR
20	1	R4 Fitted	RES, 0R, Jumper, 1/10W, 0603	Panasonic	ERJ-3GEY0R00V
21	1	R13 Fitted	RES, 0R, JUMPER, 1/16W, 0402	Yageo	RC0402JR-070RL
22	1	R1 Fitted	RES, 100k, 1%, 1/16W, 0402	Yageo	RT0402FRE07100KL
23	1	D1 Fitted	Schottky diode If=1A, Vr=23V, Packager SOD-323	ST Microelectronics	BAT20JFILM
24	1	Y1 Fitted	OSC, XO, 12.0MHZ, 1.8V, Low Power MEMS, DFN4, 3.2x2.5mm,	Abracon	AMPMEFB-12.0000T
25	2	MP5, MP6 Fitted	M1.8 x6mm	Screwwerk	STP380180060B
26	2	R2, R3 Fitted	RES, 100R, 1%, 1/16W, 0402	Yageo	RC0402FR-07100RL
27	2	R7, R8 Fitted	RES 2.7KOHM 1% 1/16W 0402	Yageo	RC0402FR-072K7L
28	3	C15, C16, C19 Fitted	CAP, CER, 10uF, 6.3V, X5R, 0402	Murata	GRJ155R60J106ME11D
29	3	C2, C3, C7 Fitted	CAP, CER, 4.7uF, 10V, X5R, 0603	Taiyo Yuden	LMK107BJ475KA-T
30	0	C5 Not Fitted	CAP, CER, 100nF, 16V, X7R, 0402	Murata	GRM155R71C104KA88D
31	6	C1, C4, C8, C9, C22, C23 Fitted	CAP, CER, 100nF, 16V, X7R, 0402	Murata	GRM155R71C104KA88D
32	2	Q1, Q2 Fitted	MOSFET, N-CH, 20V, 200mA, SOT-23-3	Fairchild/ON	BSS138

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgment.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2024 STMicroelectronics – All rights reserved