

**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	VD66GY Sensor - PLCC package - FB	ST Microelectronics	VD66GY_PLCC28_RGB
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,	Abrakon	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

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