

**BILL OF MATERIALS**

PCB : InterfaceBoard  
PCB Revision: V1.0  
PCB dikte : 0.6mm  
Date: 09-10-2019  
BOM version: v1.1  
Firmware: None

**Resistor**

Designator	Package	Quantity	Value	Supplier	ref	Company	Type	Description
R1,R2	0201	2	1k 5%	Mouser	667-ERJ-1GEJ102C	Panasonic	ERJ-1GEJ102C	
R3,R5,R10,R11,R12	0201	5	10k 1%	Farnell	1711641	Multicomp	MCRE000164	
R4	0201	1	49R9 1%	Mouser	603-RC0201FR-0749R9L	Yageo	RC0201FR-0749R9L	
R6	0201	1	100k 1%	Mouser	603-RC0201FR-07100KL	Yageo	RC0201FR-07100KL	
R8,R7	0402	2	1k 1%	Mouser	667-ERJ-PA2F1001X	Panasonic	ERJ-PA2F1001X	
R9	0201	1	0R 5%	Mouser	603-RC0201JR_130RL	Yageo	RC0201JR_130RL	

**Capacitor**

Designator	Package	Quantity	Value	Supplier	ref	Company	Type	Description
C13,C18,C27,C19	0201	4	100nF 10V X5R	Farnell	2524957	TDK	C0603X5R1A104K030BC	
C2,C4,C7,C11,C15	0201	5	10nF 10V X5R	Mouser	81-GRM033R61A103KA01	muRata	GRM033R61A103KA01D	
C10	0201	1	47nF 6.3V X5R	Farnell	1758844	Multicomp	MC0201X473K6R3CT	
C12	0201	1	1uF 6.3V X5R	Farnell	2672085	muRata	GRT033R60J105ME13D	
C21,C23	0402	2	1uF 25V X5R	Farnell	2672112	muRata	GRT155R61E105KE01D	
C24,C25,C26,C8,C14,C16	0402	6	10uF 6.3V X5R	Farnell	2218854	muRata	GRM155R60J106ME44D	
C17	0603	1	22uF 10V X5R	Farnell	2426957	muRata	GRM188R61A226ME15D	

**Inductor**

Designator	Package	Quantity	Value	Supplier	ref	Company	Type	Description
L3	0805	1	4.7μH	Mouser	81-LQM21PN4R7MGRD	muRata	LQM21PN4R7MGRD	
L6	0805	1	1μH	Mouser	81-DFE201210U-1R0MP2	muRata	DFE201210U-1R0M=P2	
L4	3x3	1	100μH	Mouser	81-LQH3NPN101MGRL	muRata	LQH3NPN101MGRL	
L5,L2,L1	0201	3	Ferriet-bead	Mouser	710-742692003	Würth Electronics	742692003	

**IC's**

Designator	Package	Quantity	Value	Supplier	ref	Company	Type	Description
U1	WQFN-32	1	DS90UR913A	Mouser	595-S90UB913ATRTRVRQ1	Texas Instruments	DS90UB913ATRTRVRQ1	FPD-Link III Serializer
U3	XDFN4	1	NCP163 1.8V	Mouser	863-NCP163AMX180TBG	ON Semiconductor	NCP163AMX180TBG	LDO Voltage regulator
U4	LGA-14	1	LSM6DS3H	Mouser	511-LSM6DSLTR	ST	LSM6DSLTR	iNEMO inertial module
U5	DSBGA-12	1	LM3643	Mouser	595-LM3643YFFR	Texas Instruments	LM3643YFFR	Dual LED Driver
U6	DSBGA-8	1	LM36011	Mouser	595-LM36011YKBR	Texas Instruments	LM36011YKBR	Inductorless Single-LED Flash Driver
U2	UMLP_Quad16	1	FXL6408	Mouser	512-FXL6408UMX	ON Semiconductor	FXL6408UMX	8-Bit I2C-Controlled GPIO Expander

**Various**

Designator	Package	Quantity	Designation	Supplier	ref	Company	Type	Description
D1	LED_0402	1	LED	Mouser	755-SML-P11UTT86R	ROHM	SML-P11UTT86R	Indicator LED