

## Chordata K-Ceptor R2.2 BOM

Item #	Ref Des	Qty	Manufacturer	Manufacturer Part #	Description / Value	Package	Type	Notes
1	U1	1	ST microelectronics	LSM9DS1TR	TFLGA 3.5X3X1 24LiNEMO inertial module, 3D magnetometer, 3D accelerometer, 3D gyroscope, I2C,	TFLGA 3.5X3X1 24L	SMD	Critical to pcb design, Cannot be substituted without changes on the PCB.
2	U2	1	Linear Technology	LTC4316CMS#PBF	Single I2C/SMBus Address Translator	10-Lead Plastic MSOP	SMD	Critical to pcb design, Cannot be substituted without changes on the PCB. Other accepted part # are: LTC4316CMS#TRPBF, LTC4316IMS#PBF and LTC4316IMS#TRPBF
3	C1, C2, C3	3	MULTICOMP	MC1206B104K201CT	SMD Multilayer Ceramic Capacitor, 0.1 µF, 200 V, 1206 [3216 Metric], ± 10%, X7R, MC Series	1206 [3216 Metric]	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability. Minimal Voltage is 16V. Minimal tolerance is 10%
4	C4	1	VISHAY	VJ1206Y106KXXTW1BC	SMD Multilayer Ceramic Capacitor, 10 µF, 25 V, 1206 [3216 Metric], ± 10%, X7R, VJ...W1BC Series	1206 [3216 Metric]	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability. Minimal Voltage is 16V. Minimal tolerance is 10%
5	C5	1	MULTICOMP	MCU1206R103KCT	SMD Multilayer Ceramic Capacitor, 10000 pF, 50 V, 1206 [3216 Metric], ± 10%, X7R, MCU Series	1206 [3216 Metric]	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability. Minimal Voltage is 16V. Minimal tolerance is 10%
6	U3	1	ST microelectronics	M24C02-WMN6P	EEPROM, Serial I2C (2-Wire), 2 Kbit, 256 x 8bit, 400 kHz, SOIC, 8 Pin	8pin SOIC	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability.
7	R1, R2, R3	3	MULTICOMP	MF25 10K	Through Hole Resistor, 10 kohm, MF25 Series, 250 mW, ± 1%, Axial Leaded, 250 V	Axial leaded	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
8	R4	1	MULTICOMP	MF25 1K	Through Hole Resistor, 1 kohm, MF25 Series, 250 mW, ± 1%, Axial Leaded, 250 V	Axial leaded	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
9	J1, J2	2	MOLEX	95501-2661	Modular Connector, RJ12, Jack, 6 Contacts, 6 Ways, 95501 Series, Cat3	--	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
40	J5	4	MULTICOMP	2214S-06SG-85	<del>Board-To-Board Connector, 2.54 mm, 6 Contacts, Receptacle, 2214S Series, Through Hole, 2 Rows</del>	--	THT	<del>Non critical component. Vendor and P/N can be determined by cost and local availability.</del>
11	D1	1	KINGBRIGHT	L-964QBDL-D	KINGBRIGHT LED, Blu, Foro Passante, T-1 (3mm), 20 mA, 3.3 V, 465 nm	T-1 (3mm)	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.



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## Chordata Hub R1.2 BOM

Item #	Ref Des	Qty	Manufacturer	Manufacturer Part #	Description / Value	Package	Type	Notes
1	U1	1	NXP	PCA9548AD,112	Translating Switch, Bidirectional, 8 Inputs, 2.3V to 5.5V Supply, 25mA Out, 0.3ns Delay	SOIC-24	SMD	Critical to pcb design, Cannot be substituted without changes on the PCB.
3	U2	1	MCP1603T-330I/OS	MICROCHIP	Synchronous Buck Step Down,Switching Regulator, Fixed, 2.7V-5.5V In, 3.30V/0.5A Out, 2.8 MHz	TSOT-5	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability.
4	L1	1	WURTH ELEKTRONIK	744031004	744031004 - Power Inductor (SMD), 4.7 $\mu$ H, 1.2 A, Shielded, 900 mA, WE-TPC Series, 3.8mm x 3.8 mm x 1.65mm	3.8mm x 3.8mm x 1.65mm	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability.
5	J12	1	----		USB Connector, Micro USB Type B, USB 2.0, Receptacle, 5 Ways	Surface Mount, Right Angle	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability.
6	U4	1	WORLDSEMI	WS2812B	LED; SMD; 5050,PLCC4; RGB; 5x5x1.6mm; 3-3.4V	5050, PLCC4	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability.
7	J11	1	CONNFLY	DS1095-WNR0	Socket; USB A; THT; angled 90°	angled 90°	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
8	D1	1	KINGBRIGHT	L-964QBDL-D	KINGBRIGHT LED, Blu, Foro Passante, T-1 (3mm), 20 mA, 3.3 V, 465 nm	Radial Leaded	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
9	R6	1	----	--	SMD resistor 1Kohm	1206	SMD	Non critical component. Vendor and P/N can be determined by cost and local availability.
10	J9	1	CONNFLY	DS1021-1*40SF11	Pin header; pin strips; male; PIN:40; straight; 2.54 mm; THT; 1x40	--	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
12	R1, R2, R3	3	TT ELECTRONICS / WELWYN	WCR1206-10KFI	SMD Chip Resistor, Thick Film, AEC-Q200 WCR Series, 10 kohm, 200 V, 1206 [3216 Metric], 250 mW	1206	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
13	C1, C2	2	MULTICOMP	MC1206B475K250CT	SMD Multilayer Ceramic Capacitor, 4.7 $\mu$ F, 25 V, 1206 [3216 Metric], $\pm$ 10%, X7R, MC Series	1206	THT	Non critical component. Vendor and P/N can be determined by cost and local availability.
14	J1 - J6	6	MOLEX	95501-2661	Modular Connector, RJ12, Jack, 6 Contacts, 6 Ways, 95501 Series, Cat3		THT	Non critical component. Vendor and P/N can be determined by cost and local availability.



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