

BOM D-O Mainboard + Supply board

	# required	Type	Link	Contained in Kit	Comment
Main board	1			yes	
Power board	1			yes	
Female pin header Main board / Arduino	2	2.54mm 14pin		yes	Self solder
Female pin header Main board / DFPlayer	2	2.54mm 14pin		yes	Self solder
Female pin header Power board / Gyro	1	2.54mm 9pin		yes	Self solder
Female pin header Main board / Xbee	2	2mm 10pin	<a href="https://a.aliexpress.com/ Evyz9aN">https://a.aliexpress.com/ Evyz9aN</a>	yes	Self solder
Male pin header Main board / Amplifier	2	2.54mm 2pin	<a href="https://a.aliexpress.com/ ExxAZ2d">https://a.aliexpress.com/ ExxAZ2d</a>	yes	Self solder
Gyro standoffs	2	M2.5x12	<a href="https://a.aliexpress.com/ EG86KNx">https://a.aliexpress.com/ EG86KNx</a>	yes	
Gyro standoff screws	2	M2.5x5	<a href="https://de.aliexpress.com/item/32810852732.html?spm=a2g0o.productlist.main.7.35f2ea97efFr5N&amp;algo_pvid=5189f">https://de.aliexpress.com/item/32810852732.html?spm=a2g0o.productlist.main.7.35f2ea97efFr5N&amp;algo_pvid=5189f</a>	yes	
Power board mounting screws	2	M2x8	<a href="https://a.aliexpress.com/ EG068mN">https://a.aliexpress.com/ EG068mN</a>	yes	
Encoder cable with connector	2	KF2510 4 Pin 200mm	<a href="https://a.aliexpress.com/ EJB2txj">https://a.aliexpress.com/ EJB2txj</a>	yes	Self solder
Motor driver cable with connector	2	KF2510 3 Pin 200mm	<a href="https://a.aliexpress.com/ EJB2txj">https://a.aliexpress.com/ EJB2txj</a>	yes	Self solder
Amplifier Cable	1	JST PH 2mm	<a href="https://a.aliexpress.com/ Exf7Yh7">https://a.aliexpress.com/ Exf7Yh7</a>	yes	
Fan connector	2		JST XH 2pol	yes	Self solder
XT30 Male + Female Power Connector	10	XT30	<a href="https://www.amazon.de/HUAZIZ-Anschlüsse-Rundstecker-Steckverbinder-Male-Female-20-Pin-XT30-Steckverbinder/dp/B08XN4M17M">https://www.amazon.de/HUAZIZ-Anschlüsse-Rundstecker-Steckverbinder-Male-Female-20-Pin-XT30-Steckverbinder/dp/B08XN4M17M</a>	yes	Self solder
XT30 Boards for Battery Packs	2		<a href="https://de.aliexpress.com/item/1005006755414157.html?spm=a2g0o.detail.pcDetailTopMoreOtherSeller.1.30ccZniGZniGiH">https://de.aliexpress.com/item/1005006755414157.html?spm=a2g0o.detail.pcDetailTopMoreOtherSeller.1.30ccZniGZniGiH</a>	yes	Self solder
Fuse holder 17x7mm incl. 10A fuse	1		<a href="https://de.aliexpress.com/ii/4000583874791.html">https://de.aliexpress.com/ii/4000583874791.html</a>	yes	Self solder
Battery holder	2	Keystone 1049	<a href="https://www.reichelt.de/batteriehalter-fuer-2x-18650-batterien-1049-2x18650-batteriehalter-1049.html">https://www.reichelt.de/batteriehalter-fuer-2x-18650-batterien-1049-2x18650-batteriehalter-1049.html</a>	yes	Self solder
Screw terminal socket + plug 3.81mm	1	2EDG 2 Pin 3.81mm	<a href="https://de.aliexpress.com/item/1005006431241111.html?spm=a2g0o.productlist.main.35.18e354565eNspE&amp;algo_pvid=521">https://de.aliexpress.com/item/1005006431241111.html?spm=a2g0o.productlist.main.35.18e354565eNspE&amp;algo_pvid=521</a>	yes	Self solder
Power switch	1		<a href="https://www.reichelt.de/kippschalter-10a-125vac-1x-ein-ein-ms-166-n13140.html?">https://www.reichelt.de/kippschalter-10a-125vac-1x-ein-ein-ms-166-n13140.html?</a>	yes	Self solder
Fan 12V XH2.54 Version	0		<a href="https://a.aliexpress.com/ EwbluWN">https://a.aliexpress.com/ EwbluWN</a>	no	Optional
Arduino Mkr Wifi 1010	1		<a href="https://store.arduino.cc/en-de/products/arduino-mkr-wifi-1010?srsltid=AfmBOor1uf474VBO4E3swBHxR5lnk16Y9eaV17ncvneaTx">https://store.arduino.cc/en-de/products/arduino-mkr-wifi-1010?srsltid=AfmBOor1uf474VBO4E3swBHxR5lnk16Y9eaV17ncvneaTx</a>	no	Not contained in kit
Arduino Mkr Dynamixel Shield	1		<a href="https://www.mybotshop.de/ROBOTIS-DYNAMIXEL-Arduino-Mkr-Shield">https://www.mybotshop.de/ROBOTIS-DYNAMIXEL-Arduino-Mkr-Shield</a>	no	Not contained in kit
Xbee board	1	XB24CAUIT	<a href="https://de.rs-online.com/web/p/entwicklungstools-">https://de.rs-online.com/web/p/entwicklungstools-</a>	no	Not contained in kit
Gyro board	1	ISM330DHCX	<a href="https://www.digikey.de/de/products/detail/adafruit-industries-llc/4502/11569134?utm_adgroup=Development Boards, Kits,">https://www.digikey.de/de/products/detail/adafruit-industries-llc/4502/11569134?utm_adgroup=Development Boards, Kits,</a>	no	Not contained in kit
UBEC 12V3A	1		<a href="https://de.aliexpress.com/item/1005007037699334.html?spm=a2a0o.productlist.main.1.7932d20ctt8PtJ&amp;algo_pvid=9c1a4">https://de.aliexpress.com/item/1005007037699334.html?spm=a2a0o.productlist.main.1.7932d20ctt8PtJ&amp;algo_pvid=9c1a4</a>	no	Not contained in kit
UBEC 5V3A	1		<a href="https://de.aliexpress.com/item/1005007037699334.html?spm=a2a0o.productlist.main.1.7932d20ctt8PtJ&amp;algo_pvid=9c1a4">https://de.aliexpress.com/item/1005007037699334.html?spm=a2a0o.productlist.main.1.7932d20ctt8PtJ&amp;algo_pvid=9c1a4</a>	no	Not contained in kit

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<b>DfPlayer Mini</b>	1		<a href="https://de.farnell.com/dfrobot/dfr0299/dfplayer-mini-mp3-player-arduino/do/3517866?CMP=KNC-GDE-GEN-KWL-PMAX-Search-https://a.aliexpress.com/_Eli5efP">https://de.farnell.com/dfrobot/dfr0299/dfplayer-mini-mp3-player-arduino/do/3517866?CMP=KNC-GDE-GEN-KWL-PMAX-Search-https://a.aliexpress.com/_Eli5efP</a>	no	Not contained in kit
<b>Amplifier</b>	1		<a href="https://a.aliexpress.com/_Eli5efP">https://a.aliexpress.com/_Eli5efP</a>	no	Not contained in kit
<b>Speakers</b>	2		<a href="https://www.cqrobot.com/index.php?route=product/product&amp;product_id=1106">https://www.cqrobot.com/index.php?route=product/product&amp;product_id=1106</a>	no	Not contained in kit