

Mechanical:

Part		amount
main pcb		1
line pcb		1
baseplate	6mm acryl	1
motormount	8mm acryl	2
xbee_usb_case	4mm acryl	2
battery's	4x rechargable aa	1
battery holder	2x aa	2
battery clip		2
nylon distance holder	m4x	2
motors	copal	2
encoderwheels	3mm acryl	2
wheels		1
spacers	30mm	4
flatcable	10p 10cm	1
screws	4x batteryholder	4
screws	4x spacers	4
screws	4x motor mount	4
nuts	pcb fix	4
pin header hooked		1
ic socket motordriver		1
2mm pin headers xbee		1

Main PCB:

Part	Value	amount	Package
R38	150e	1	M1206
R1	100k	5	M1206
R2	100k		M1206
R3	100k		M1206
R4	100k		M1206
R47	100k		M1206
C3	100nf	11	C1206
C4	100nf		C1206
C5	100nf		C1206
C6	100nf		C1206
C7	100nf		C1206
C8	100nf		C1206
C9	100nf		C1206
C15	100nf		C1206
C16	100nf		C1206
C18	100nf		C1206
C19	100nf		C1206
C1	100uf	2	D/7343-31W
C2	100uf		D/7343-31W
R21	10k	8	M1206

R24	10k	M1206
R26	10k	M1206
R29	10k	M1206
R34	10k	M1206
R35	10k	M1206
R40	10k	M1206
R42	10k	M1206
C17	150nf	1 C1206
R6	1k	9 M1206
R7	1k	M1206
R11	1k	M1206
R12	1k	M1206
R13	1k	M1206
R43	1k	M1206
R51	1k	M1206
R52	1k	M1206
R53	1k	M1206
C10	1u	4 CT3216
C11	1u	CT3216
C12	1u	CT3216
C13	1u	CT3216
R16	220e	5 M1206
R17	220e	M1206
R19	220e	M1206
R36	220e	M1206
R37	220e	M1206
R30	22k	2 M1206
R31	22k	M1206
C14	22uf	1 CT6032
R22	2k2	2 M1206
R27	2k2	M1206
R33	33k	1 M1206
R39	360e	2 M1206
R41	360e	M1206
IC5	4052D	1 SO16
IC2	4053D	1 SO16
R20	47k	5 M1206
R23	47k	M1206
R25	47k	M1206
R28	47k	M1206
R32	47k	M1206
R14	4k7	6 M1206
R15	4k7	M1206
R18	4k7	M1206
R44	4k7	M1206
R45	4k7	M1206
R49	4k7	M1206
R48	680e	1 M1206
IC4	74HC14D	1 SO14
R8	82e	3 M1206

R9	82e	M1206
R10	82e	M1206
R46	8k2	2 M1206
R50	8k2	M1206
U\$1	ARDIUNO_DIECIMILA	1 ARDUINO_SHIELD_MIRRORED
JP7	battery	0 1X04
T_F	BPV11F	3 BPV11F
T_L	BPV11F	BPV11F
T_R	BPV11F	BPV11F
JP5	DOUT	1X02
MIC_L	ELECTRET_MIC	2 WM-62PC/62PK
MIC_R	ELECTRET_MIC	WM-62PC/62PK
IC1	L293D	1 DIL16
U\$2	lm317	1 SOT223
IC3	LM324D	1 SO14
LINE_FOL	LOW	10P-HEADER_5X2
JP8	motor	1X04
D1	nm	0 DO35-10
P_IN	nm	1X02
RESET	reset	1 TACTILE-PTH
SJ1	SOLDERJUMPERNO	0 SJ-NO
SJ2	SOLDERJUMPERNO	SJ-NO
SJ3	SOLDERJUMPERNO	SJ-NO
SJ4	SOLDERJUMPERNO	SJ-NO
SJ5	SOLDERJUMPERNO	SJ-NO
SJ6	SOLDERJUMPERNO	SJ-NO
SJ7	SOLDERJUMPERNO	SJ-NO
SJ8	SOLDERJUMPERNO	SJ-NO
SJ9	SOLDERJUMPERNO	SJ-NO
SJ10	SOLDERJUMPERNO	SJ-NO
SJ11	SOLDERJUMPERNO	SJ-NO
SJ12	SOLDERJUMPERNO	SJ-NO
SJ13	SOLDERJUMPERNO	SJ-NO
SJ14	SOLDERJUMPERNO	SJ-NO
SJ15	SOLDERJUMPERNO	SJ-NO
SJ16	SOLDERJUMPERNO	SJ-NO
SJ17	SOLDERJUMPERNO	SJ-NO
SJ18	SOLDERJUMPERNO	SJ-NO
SJ19	SOLDERJUMPERNO	SJ-NO
SJ20	SOLDERJUMPERNO	SJ-NO
SJ21	SOLDERJUMPERNO	SJ-NO
SJ22	SOLDERJUMPERNO	SJ-NO
IR-F	tsal5100	3 Q62902-B155
IR-L	tsal5100	Q62902-B155
IR-R	tsal5100	Q62902-B155
M1	XBEE	1 XBEE
BUZZER		1 F/QMBIII
ENC_L		2 TCRT5000
ENC_R		TCRT5000
JP1		1 1X06

JP2		1X06
JP3		1X08
JP4		1X08
JP10		1X02
JP11		1X02
JP12		1X02
JP13		1X02
JP14		1X02
JP15		1X02
JP16		1X02
JP17		1X02
JP18		1X02
JP19		1X02
JP20		1X02
JP21		1X02
JP22		1X02
JP23		1X02
JP24		1X02
JP25		1X02
JP26		1X02
JP27		1X02
JP28		1X02
JP29		1X02
LDR_L		2 M9960
LDR_R		M9960
LED1		3 CHIPLELED_1206
LED2		CHIPLELED_1206
LED3		3 CHIPLELED_1206
LED4		CHIPLELED_1206
LED5	RSSI	CHIPLELED_1206
LED6	POWER	CHIPLELED_1206
Q1		3 SOT23
Q2		SOT23
Q3		SOT23
R5	10e/0,33w	1 0207/10
S1		1 M251

Line follow PCB:

Part	Value	Amount	Package
R1	10k	2	M1206
R5	10k		M1206
R3	220e	2	M1206
R6	220e		M1206
R2	330e	2	M1206
R4	330e		M1206
U\$1	5MMRGBLED	1	LED5MMRGB
JP1	M05X2SHD	1	2X5-SHROUDED
R9	150e	3	M1206

R8	150e	M1206
R7	150e	M1206
JP2		0 1X04M
OS1		2 TCRT5000
OS2		TCRT5000