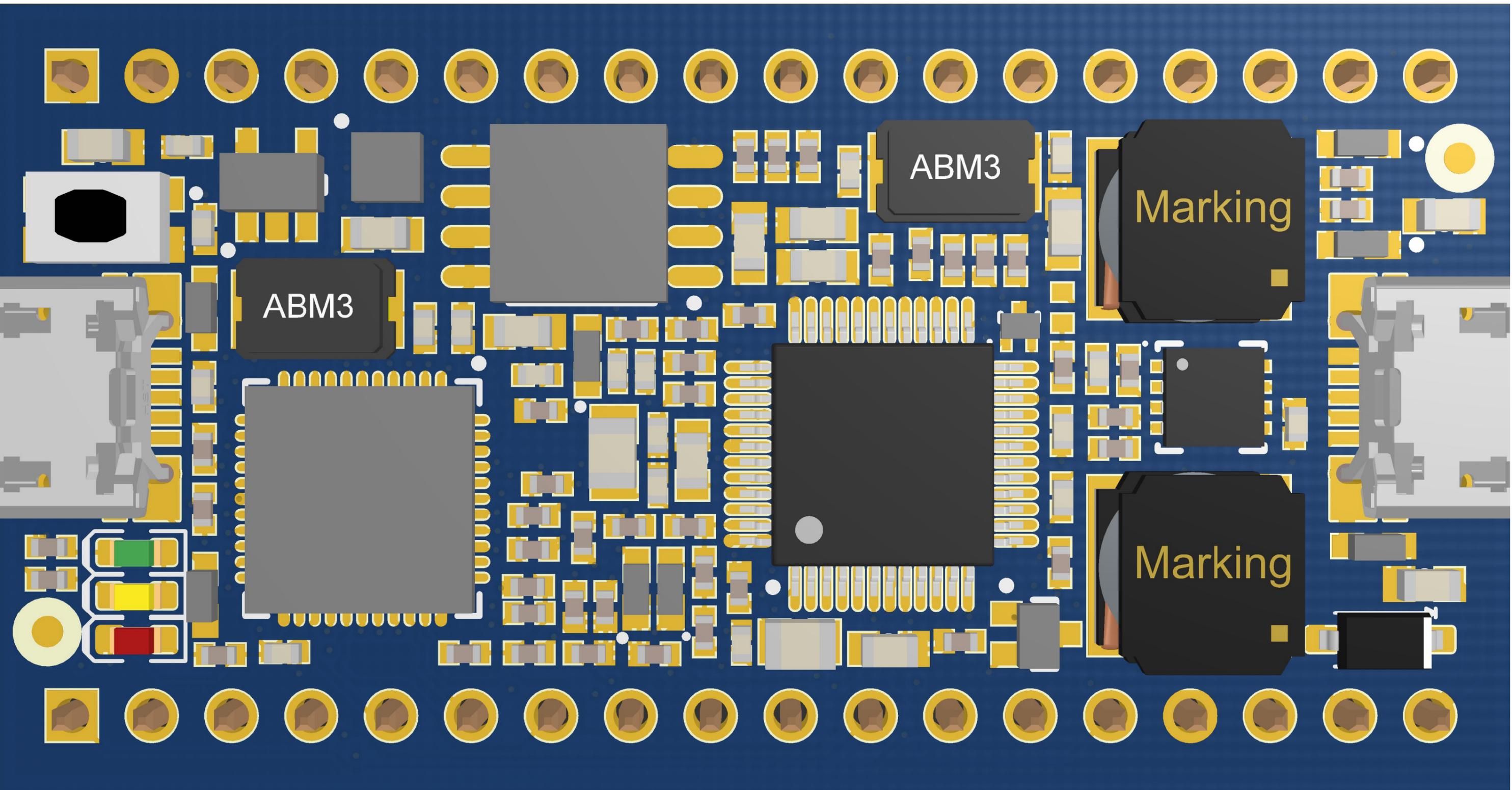


Title		
Oggy		
Size	Number	Revision
A3		1.0
Date:	3/28/2016	Sheet 1 of 1
File:	Z:\Kunder\Loligo\Oggy\Oggy.SchDoc	Drawn By:

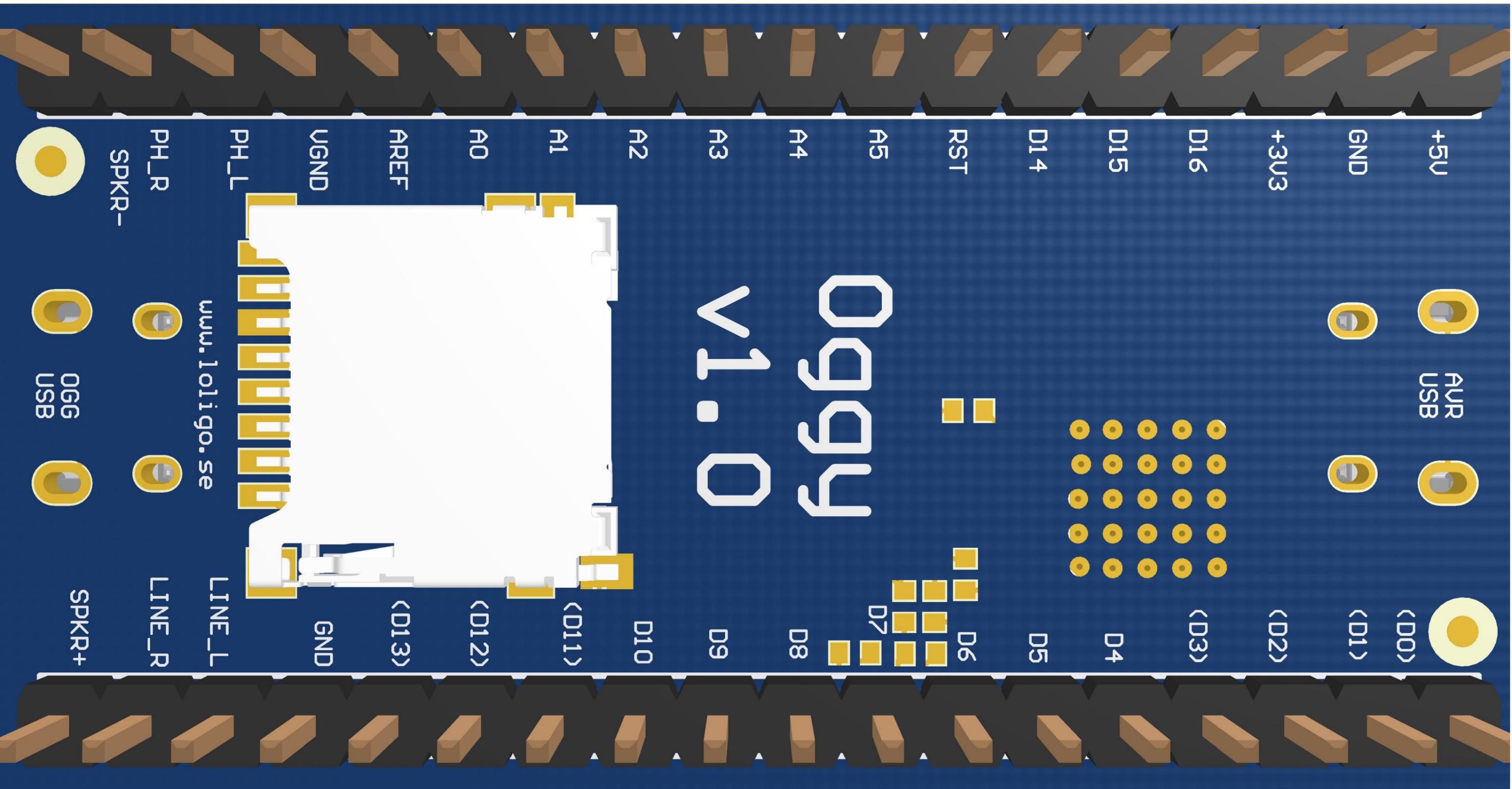


ABM3

ABM3

Marking

Marking



+5V

GND

+3V3

D16

D15

D14

RST

A5

A4

A3

A2

A1

A0

AREF

UGND

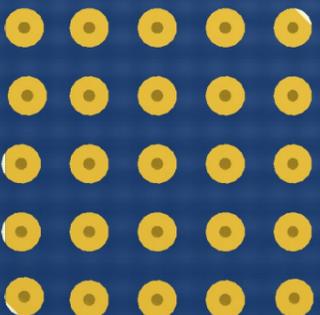
PH\_L

PH\_R

SPKR-



AVR  
USB



<D0>

<D1>

<D2>

<D3>

D4

D5

D6

D7

D8

D9

D10

<D11>

<D12>

<D13>

GND

LINE\_L

LINE\_R

SPKR+

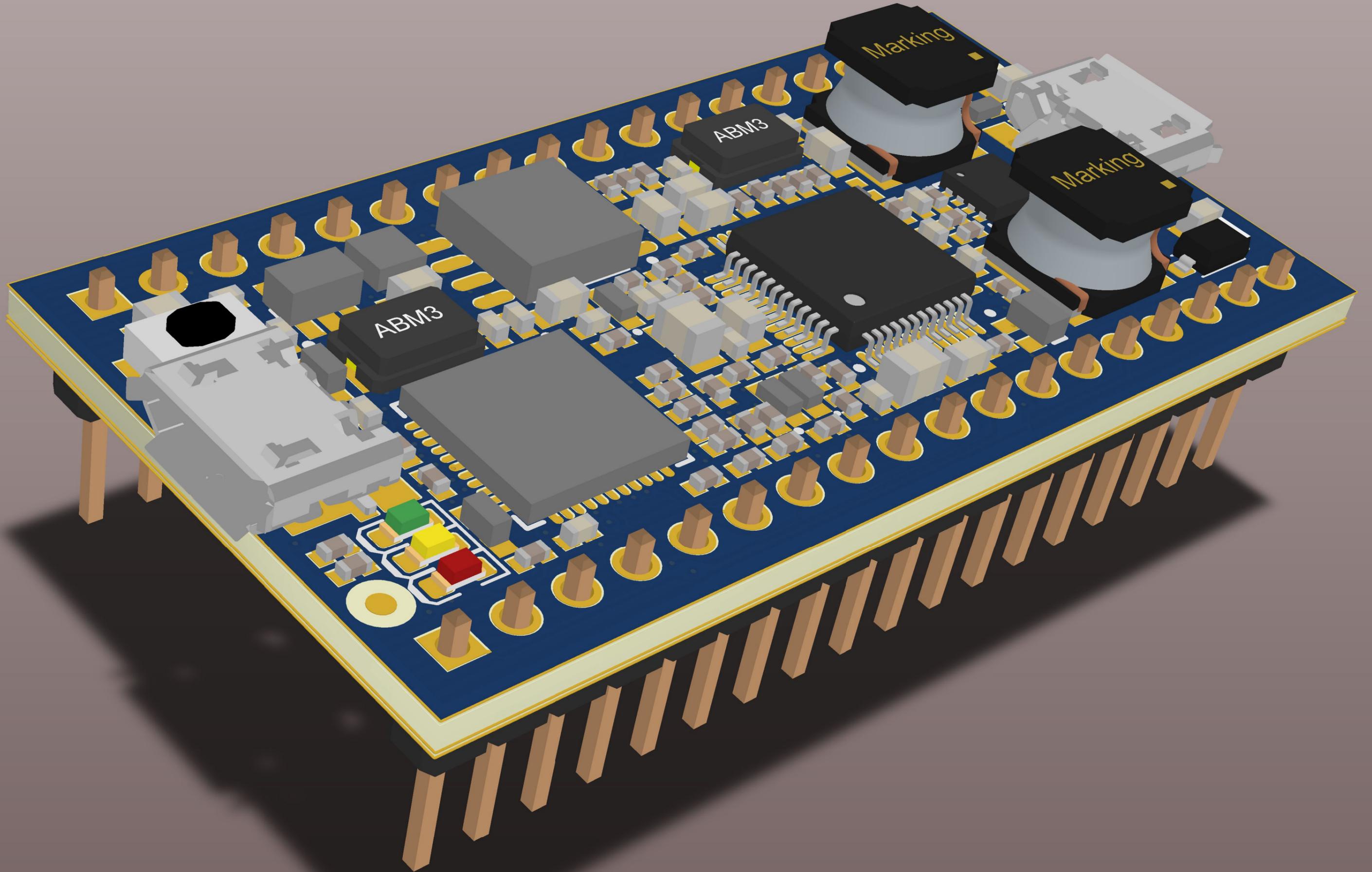
[www.loligo.se](http://www.loligo.se)

09994  
V1.0

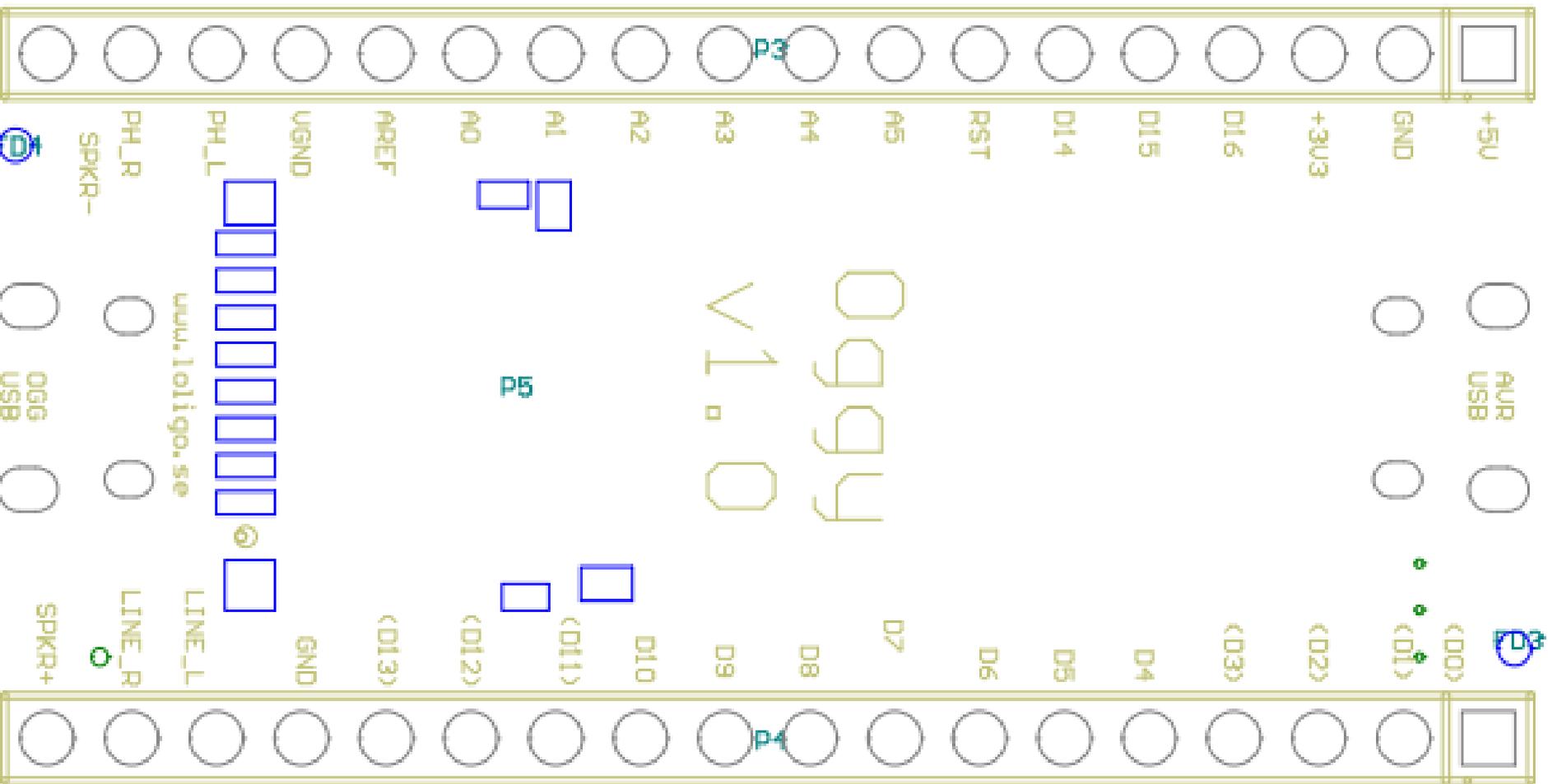


OGG  
USB









Comment	Description	Designator	Footprint	LibRef	Quantity
CAP 1uF 10V 0603(1608)	CAP 1uF 10V ±10% 0603 (1608 Metric) Thickness 1mm SMD	C1, C9, C16, C21, C24, C30, C31	CAPC0603(1608)100_N	CMP-1035-02733-1	7
CAP 100nF 16V 0402(1005)	CAP 100nF 16V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD	C2, C26, C27, C28, C29	CAPC0402(1005)60_N	CMP-1034-02068-1	5
CAP 10nF 10V 0402(1005)	CAP 10nF 10V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD	C3	CAPC0402(1005)60_N	CMP-1034-01870-1	1
CAP 12pF 10V 0402(1005)	CAP 12pF 10V ±1% 0402 (1005 Metric) Thickness 0.6mm SMD	C4, C7, C22, C25	CAPC0402(1005)60_N	CMP-1034-00749-1	4
CAP 100nF 10V 0402(1005)	CAP 100nF 10V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD	C5, C8, C10	CAPC0402(1005)60_N	CMP-1034-02064-1	3
CAP 10uF 6.3V 0603(1608)	CAP 10uF 6.3V ±20% 0603 (1608 Metric) Thickness 1mm SMD	C6, C17, C20, C23	CAPC0603(1608)100_N	CMP-1035-02797-1	4
CAP 10uF 16V 0805(2012)	CAP 10uF 16V ±10% 0805 (2012 Metric) Thickness 1.45mm SMD	C11	CAPC0805(2012)145_N	CMP-1036-04927-1	1
CAP 3.3nF 10V 0402(1005)	CAP 3.3nF 10V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD	C12, C18	CAPC0402(1005)60_L	CMP-1034-01768-1	2
CAP 47nF 10V 0402(1005)	CAP 47nF 10V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD	C13	CAPC0402(1005)60_L	CMP-1034-02010-1	1
CAP 10nF 10V 0402(1005)	CAP 10nF 10V ±5% 0402 (1005 Metric) Thickness 0.6mm SMD	C14, C15	CAPC0402(1005)60_L	CMP-1034-01870-1	2
CAP 10uF 16V 0805(2012)	CAP 10uF 16V ±10% 0805 (2012 Metric) Thickness 1.45mm SMD	C19	CAPC0805(2012)145_L	CMP-1036-04927-1	1
DIODE_SCHOTTKY_40V_1A	Diode Schottky SMD 40V 1A SOD123	D1	SOD123	DIODE_SCHOTTKY_40V_1A	1
BLM18AG601SMD	Chip Ferrite Bead for General Use, 600 Ohm, 500 mA, -55 to 125 degC, 1.6 x 0.8 x 0.95 mm SMD, Tape and Reel	FB1, FB2, FB3	MURA-BLM18-F-H1-CHIP-2_V	CMP-0686-00436-2	3
10.0 uH	WE-LCS SMD Power Inductor, L=10.0 uH	L1, L2	WE-LCS 6045	WE-LCS 6045, 74404064100	2
Green	LED 0603 SMD Green 570nm 50mcd 20mA	LED1	LED-0603-GREEN	LED_SMD_Green_0603_570nm	1
Yellow	LED 0603 SMD Yellow 590nm 150mcd 20mA	LED2	LED-0603-YELLOW	LED_SMD_Yellow_0603_150mcd	1
Red	LED 0603 SMD Hyper Red 630nm 220mcd 20mA	LED3	LED-0603-RED	LED_SMD_Red_0603_220mcd	1
10103594-0001LF	Connector Receptacle USB - micro B 2.0 5 Position Surface Mount, Right Angle, Horizontal	P1, P2	10103594-0001LF	10103594-0001LF	2
61301811121	WR-PHD 2.54mm Pin Header	P3, P4	61301811121	WE-2.54 mm Pin Header & Jumper 61301811121	2
114-00841-68	Micro SD Push and Pull	P5	114-00841-68	114-00841-68	1
NTK3134NT1G	Power MOSFET, 20 V, 690 mA, Single N-Channel with ESD Protection, 3-Pin SOT-723, Pb-Free, Tape and Reel	Q1	ONSC-SOT-723-3-631AA-01_V	CMP-1058-00838-1	1
NTS2101PT1G	Power MOSFET, -8 V, -1.4 A, Single P-Channel, 3-Pin SOT-223, Pb-Free, Tape and Reel	Q2	ONSC-SOT-323-3-419-04_V	CMP-1058-00804-1	1
330R 1% 0402(1005)	330R 0.063W 1% 0402 (1005 Metric) SMD	R1, R2	RESC0402(1005)_N	CMP-1011-00454-1	2
22R 1% 0402(1005)	22R 0.063W 1% 0402 (1005 Metric) SMD	R3, R4	RESC0402(1005)_N	CMP-1011-00320-1	2
1K 1% 0402(1005)	1K 0.063W 1% 0402 (1005 Metric) SMD	R5	RESC0402(1005)_N	CMP-1011-00510-1	1
100K 1% 0402(1005)	100K 0.063W 1% 0402 (1005 Metric) SMD	R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R20, R27, R28, R34, R35, R36, R38	RESC0402(1005)_N	CMP-1011-00736-1	20
470R 1% 0402(1005)	470R 0.063W 1% 0402 (1005 Metric) SMD	R19, R26	RESC0402(1005)_N	CMP-1011-00473-1	2
10R 1% 0402(1005)	10R 0.063W 1% 0402 (1005 Metric) SMD	R21, R24, R25	RESC0402(1005)_N	CMP-1011-00284-1	3
20R 1% 0402(1005)	20R 0.063W 1% 0402 (1005 Metric) SMD	R22, R23	RESC0402(1005)_N	CMP-1011-00316-1	2
4K7 1% 0402(1005)	4K7 0.063W 1% 0402 (1005 Metric) SMD	R29, R30	RESC0402(1005)_N	CMP-1011-00586-1	2
10K 1% 0402(1005)	10K 0.063W 1% 0402 (1005 Metric) SMD	R31, R33	RESC0402(1005)_N	CMP-1011-00623-1	2
1M 1% 0402(1005)	1M 0.063W 1% 0402 (1005 Metric) SMD	R32, R37, R44, R45	RESC0402(1005)_N	CMP-1011-00849-1	4
Jumper 0402(1005 Metric)	Jumper 0402(1005 Metric)	R39	RESC0402(1005)_N	CMP-1011-00001-1	1
150K 1% 0402(1005)	150K 0.063W 1% 0402 (1005 Metric) SMD	R41, R42, R43	RESC0402(1005)_N	CMP-1011-00754-1	3
CG0603MLC-05E	ESD Protector 5V Supply, -40 to 85 degC, 1.6 x 0.8 x 0.55 mm SMD, RoHS, Tape and Reel	RV1, RV2, RV3, RV4, RV5	BOUR-CG0603-2_V	CMP-0584-00001-2	5
KMR211GLFS		SW1	KMR2	KMR2	1
TLV70233DBVR	Single Output LDO, 300 mA, Fixed 3.3 V Output, 2 to 5.5 V Input, with Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	U1	TI-DBV5_N	CMP-0394-00528-1	1
Atmega32U4-MU	8-bit AVR Microcontroller, 2.7-5.5V, 16MHz, 32KB Flash, 1KB EEPROM, 2.5KB SRAM, USB Controller, 44-pin QFN, Industrial Grade (-40°C to 85°C), Ext Osc	U2	44PW_M	CMP-0095-00166-2	1
LIS2DH	MEMS Digital Output Motion Sensor Ultra Low-Power High Performance 3-Axes "Femto" Accelerometer, 1.71 to 3.6 V, -40 to 85 degC, 14-pin (LGA-14), Pb-Free, Tray	U3	LGA-14_N	CMP-0234-00082-3	1
N25Q128A13ESE40E	128 Mb (x1/x2/x4) Serial NOR Flash Memory with Multi I/O, 108 MHz, 2.7 to 3.6 V, 8-pin SO8 Wide (SE), Tray	U4	MIC2-SE-8_N	CMP-0357-00158-1	1
VS1000	Ogg Vorbis Player IC with USB and NAND FLASH Interface	U5	TSQFP50P900X900X160-48N	VS1000	1
IS31AP2005-DLS2-TR	2.95W MONO FILTER-LESS CLASS-D AUDIO POWER AMPLIFIER	U6	SON65P300X80_HS-9N	IS31AP2005-DLS2-TR	1
8MHz	XTAL SMD 5032 8MHz, 18pF, ±30ppm	X1	XTAL_5032	XTAL_TSX-5032	1
12MHz	XTAL SMD 5032 12MHz	X2	XTAL_5032	XTAL_TSX-5032	1