

Bill of Materials

Source Data From:

Project:

Variant:

None



Creation Date: 8/1/2013 13:33:45
Print Date: 15-Nov-18 1:26:18 PM

MB1136C-03 BOM & components order and assembly

Select MCU Reference in follow list:

L053R8

Select Socket option:

without socket

Board name:NUCLEO-L053R8

Comment	Designator	Footprint	Quantity	Assembly	Ordered by	Comments	Description	Manufacturer 1	Part#1	Manufacturer 2	Part#2	ECCN US	ECCN EU	Info source
USER (Blue)	B1	PB10	1	Blue	Subcon	Blue	touch switch,Blue,6*6,SMT,TD-0341X-G00,wealthmetal	wealthmetal	TD0341X-G01-BLU			NA	NA	
TD-0341 [RESET/Black]	B2	PB10	1	Black	Subcon	Black	touch switch,Black,6*6,SMT,TD-0341X-A00,wealthmetal	wealthmetal	TD0341X-G01-BLA			NA	NA	
100nF	C1, C4, C5, C6, C7, C11, C12, C14, C15, C19, C20, C23, C24, C27, C28, C30	0603C	16		Subcon		Capacitor,100nF,10%,50V,X7R,0603,YAGEO;	YAGEO	CC0603KRX7R9BB104			NA	NA	
1uF_X5R_0603	C2, C13, C18, C21, C29	0603C	5		Subcon		Capacitor,1uF,0603,16V,10%,X5R,YAGEO	YAGEO	CC0603KRX5R7BB105			NA	NA	
20pF	C3, C8	0603C	2		Subcon		Capacitor,20pF,5%,50V,NPO,0603,YAGEO	YAGEO	CC0603JRNPO9BN200			NA	NA	
20pF[N/A]	C10	0603C	1	[N/A]	Subcon		Capacitor,20pF,5%,50V,NPO,0603,YAGEO	YAGEO	CC0603JRNPO9BN200			NA	NA	
10nF_X7R_0603	C9	0603C	1		Subcon		Capacitor,10nF,0603,50V,10%,X7R,YAGEO;	YAGEO	CC0603KRX7R9BB103			NA	NA	
10uF(25V)	C16	TAN-B	1		Subcon		Tan Capacitor,10uF,10%,25V,B,AVX	AVX	TAJB106K025R			NA	NA	
10uF	C17	TAN-A	1		Subcon		Tan Capacitor,10uF,10%,16V,A,AVX	AVX	TAJA106K016R			NA	NA	
[N/A]	C22, C25	TAN-A	2	[N/A]	Subcon		Capacitor,2.2uF,10%,16V,X7R,1206	YAGEO	CC1206KKX7R7BB225			NA	NA	
4.7uF[N/A]	C26	TAN-A	1	[N/A]	Subcon		Capacitor,4.7uF,10%,25V,X7R,1206	YAGEO	CC1206KKX7R8BB475			NA	NA	
4.3pF	C31, C32	0603C	2		Subcon		Capacitor,4.3pF,±0.25pF,50V,COG,0603,	FENGHUA	0603CG4R3C500NT	Murata	GRM1885C1H4R3CA01D	NA	NA	
20pF[N/A]	C33, C34	0603C	2	[N/A]	Subcon		Capacitor,20pF,5%,50V,NPO,0603,YAGEO	YAGEO	CC0603JRNPO9BN200			NA	NA	
5075BMR-05-SM	CN1	USB-MINI-B-SMD	1		Subcon	USB Mini Connector	USB,MUSB5QS-BM1H6-NLB-E,Townes	Townes	MUSB5QS-BM1H6-NLB-E	Neitron	5075BMR-05-SM	NA	NA	
Header 4	CN2	1*4	1		Subcon		Pin header male,2.54mm,1*4,L=11.6,180,1U,DIP,Lyconn	Lyconn	313140S111116			NA	NA	
	CN3, JP1, JP6	SIP2/2.54	3		Subcon		Pin header male,2.54mm,1*2,L=11.6,180,1U,DIP,Lyconn	Lyconn	313140S111116			NA	NA	
[N/A]	JP4	SIP2/2.54	1	[N/A]	Subcon							NA	NA	
313140S161185	CN11, CN12	SIP2/2.54	2x1/20		Subcon	CN11,CN12 long headers on bottom layer same as CN7 & CN10	Pin header male,2.54mm,1*2P,L=6+2.5+10=18.5 313140S161185	Lyconn	313140S161185			NA	NA	
Header 6X1	CN4	1*6P	1		Subcon		Header Female,1*6,2.54*8.5,Y type,1u,PAT,2.5MM	Lyconn	218106S1610			NA	NA	
Header 10X1_Female	CN5	1*10P_FEMALE	1		Subcon		Header Female,1*10,2.54*8.5,Y,1u,PAT,2.5MM	Lyconn	218110S1610			NA	NA	
Header 8X1_Female	CN6, CN9	1*8P_FEMALE	2		Subcon		Header Female,1*8,2.54*8.5,Y,1u,PAT,2.5MM	Lyconn	218108S1610			NA	NA	
Header 19X2 (313238S161185)	CN7, CN10	2*19P	2		Subcon	long headers on bottom layer	Pin header male,2.54mm,2*19P,L=6+2.5+10=18.5 313238S161185	Lyconn	313238S161185			NA	NA	
Header 6X1_Female	CN8	1*6P_FEMALE	1		Subcon		Header Female,1*6,2.54*8.5,Y,1u,PAT,2.5MM	Lyconn	218106S1610			NA	NA	
BAT60JFILM	D1, D2, D3	SOD323/A	3		STM		Diode,BAT60JFILM,SOD323/A,ST,(X3 Code 9151097)	ST	BAT60JFILM			NA	NA	
STPS2L30A	D4	SMA	1		STM		Diode,STPS2L30A,DO214AC(SMA),ST,(X3 Code 9151083)	ST	STPS2L30A			NA	NA	

	JP5	SIP3	1		Subcon		Pin header male,2.54mm,1*3,L=11.6,180,1U, DIP, Lyconn	Lyconn	313140S111116			NA	NA	
BEAD	L1	0603L	1		Subcon		Bead,600R,350mA,0603,FCM160 8KF-001T05,Tai-tech	Tai-tech	FCM1608KF-001T05			NA	NA	
LD_BICOLOR_CMS	LD1	HSMF-A201	1		Subcon		LED,Bi-color,red-green,3.2 mm x 2.8 mm,LE-RGW35280,SMT,	everluck-led	LE-RGW35280	Avago	HSMF-A201-A00J1	EAR99	NEC	Sub Co
Green	LD2	0603D	1		Subcon		LED,Green,0603	Everlight	19-213SY6C/S530-E2/TR8LED			EAR99	NEC	Sub Co
RED	LD3	0603D	1		Subcon		LED,Red,0603	Everlight	19-213-R6C-AP1Q2B-3T			EAR99	NEC	Sub Co
10K	R1, R3, R12, R33	0603R	4		Subcon		Resistor,10K,0603,5%,YAGEO	YAGEO	RC0603JR-0710KL			NA	NA	
4K7	R4, R23, R27, R28, R30	0603R	5		Subcon		Resistor,4.7K,0603,1% YAGEO	YAGEO	RC0603FR-074K7L			NA	NA	
22	R5, R8, R13, R22	0603R	4		Subcon		Resistor,22R,0603,1% YAGEO	YAGEO	RC0603FR-0722RL			NA	NA	
100K	R6, R14, R15	0603R	3		Subcon		Resistor,100K,0603,1% YAGEO	YAGEO	RC0603FR-07100KL			NA	NA	
2K7	R7	0603R	1		Subcon		Resistor,2.7K,0603,1%,YAGEO	YAGEO	RC0603FR-072K7L			NA	NA	
100	R11, R20, R21, R24, R25, R29	0603R	6		Subcon		Resistor,100R,0603,1% YAGEO	YAGEO	RC0603FR-07100RL			NA	NA	
36K	R10	0603R	1		Subcon		Resistor,36K,0603,1% YAGEO	YAGEO	RC0603FR-0736KL			NA	NA	
1K5	R16	0603R	1		Subcon		Resistor,1.5K,0603,1%,YAGEO	YAGEO	RC0603FR-071K5L			NA	NA	
0	R17, R18, R19, R34, R36	0603R	5		Subcon		Resistor,0R,0603,5%,YAGEO	YAGEO	RC0603JR-070RL			NA	NA	
510	R31	0603R	1		Subcon		Resistor,510R,0603,1% YAGEO	YAGEO	RC0603FR-07510RL			NA	NA	
1K	R32	0603R	1		Subcon		Resistor,1K,0603,1%,YAGEO	YAGEO	RC0603FR-071KL			NA	NA	
[N/A]	R2, R9, R26, R35, R37	0603R	5	[N/A]	Subcon							NA	NA	
Circuit Breaker	SB2, SB3, SB5, SB7, SB9, SB12, SB13, SB14, SB15, SB16, SB17, SB21, SB45, SB50, SB51, SB54, SB56, SB57, SB60	JP2_SMD	19		Subcon	Dafulnt Closed	Resistor,0R,0603,5%,YAGEO	YAGEO	RC0603JR-070RL			NA	NA	
[N/A]	SB1, SB4, SB6, SB8, SB10, SB11, SB46, SB48, SB49, SB52, SB55, SB63	JP2_SMD	12	[N/A]	Subcon	Dafulnt Open						NA	NA	
Circuit Breaker	SB19, SB23, SB25, SB27, SB28, SB31, SB33, SB35, SB37, SB38, SB40, SB41, SB42, SB43, SB53, SB64	JP2_SMD	16		Subcon	Solder Bridges(Closed)	Resistor,0R,0603,5%,YAGEO	YAGEO	RC0603JR-070RL			NA	NA	
[N/A]	SB18, SB20, SB22, SB24, SB26, SB29, SB30, SB32, SB34, SB36, SB39, SB44, SB47, SB58, SB59, SB61, SB62, SB65	JP2_SMD	18	[N/A]	Subcon	Solder Bridges(Open)						NA	NA	
9013	T1	SOT-23	1		Subcon		Transistor,MMBT9013L/G,SOT-23 unisonic	unisonic	MMBT9013L/G			EAR99	NEC	Sub Co
STS7PF30L	T2	SO8	1		STM		MOS Transistor,STS7PF30L,SO-8,ST	ST	STS7PF30L			EAR99	NEC	http://tcd.rsgp.st.com:2300/0/tcdr/app?page=tcd/prductList
LD3985M33R	U1	SOT-23-5L	1		STM		IC,3.3V,LD3985M33R,SOT23-5L,ST,(X3 Code 9176161)	ST	LD3985M33R			EAR99	NEC	http://tcd.rsgp.st.com:2300/0/tcdr/app?page=tcd/prductList
STM32F103CBT6	U2	QFP48 7X7	1		STM		IC,STM32F103CBT6 (128K),LQFP-48,(9175111)	ST	STM32F103CBT6				NEC	http://tcd.rsgp.st.com:2300/0/tcdr/app?page=tcd/prductList
LD1117S50TR	U3	SOT-223	1		STM		IC,LD1117S50TR,SOT223,ST	ST	LD1117S50TR			3A991A2	NEC	http://tcd.rsgp.st.com:2300/0/tcdr/app?page=tcd/prductList
LD39050PU33R	U4	DFN6(3X3)	1		STM		IC,LD39050PU33R,SMT	ST	LD39050PU33R			EAR99	NEC	http://tcd.rsgp.st.com:2300/0/tcdr/app?page=tcd/prductList
STM32L053R8T6	U5	LQFP64	1	without socket	STM		IC,STM32L053R8T6,LQFP64,SMT	ST	STM32L053R8T6				NEC	http://tcd.rsgp.st.com:2300/0/tcdr/app?page=tcd/prductList
8MHz(12pF)	X1	XTAL1	1		Subcon		crystal,9SL8000012AFXHF0-SJ28,12PF,8M,20PPM	HongKongCrystal	9SL8000012AFXHF0-SJ28			3A991A2	NEC	Sub Co
ABS25-32.768KHZ-6-T	X2	XTAL_4SM_8X3R8	1		Subcon		Crystal 32.768KHz ±20ppm (Tol) 6pF -40+85C Low Profile ESR 50kOhm 4-Pin SMD T/R	Abrakon	ABS25-32.768KHZ-6-T			NA	NA	
8MHz(16pF)[N/A]	X3	XTAL1	1	[N/A]	Subcon							NA	NA	
Stick for Board name			1	Board name:NUCLEO-L053R8	Subcon							NA	NA	
blister			1		Subcon							NA	NA	
IC149-064-075-B5	MCU socket		1	[N/A]	Subcon		IC Socket,IC149-064-075-B5	Yamaichi	IC149-064-075-B5			NA	NA	