



Title		
Size	A3	Number
Date:	19.2.2014	Sheet of
File:	E:\Work\EM2014 DevBoard SchDoc	Drawn By:



# Bill of Materials

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Source Data From: EM2014\_DevBoard.PrjPcb  
 Project: EM2014\_DevBoard.PrjPcb  
 Variant: None

Creation Date: 19.2.2014 11:14:20  
 Print Date: 41689 41689,46841

Footprint	Comment	LibRef	Designator	Description	Quantity
C0805	1uF	Cap	C1, C2, C11, C12, C17	Capacitor	5
C0805	100nF	Cap	C3, C6, C7, C8, C9, C13, C14, C15, C18, C20	Capacitor	10
C0805	4.7uF	Cap	C4	Capacitor	1
C0805	470nF	Cap	C5	Capacitor	1
C0805	22pF	Cap	C10, C16	Capacitor	2
C0805	10uF	Cap	C19	Capacitor	1
C0805	2.2uF	Cap	C21, C22, C23, C24	Capacitor	4
HDSP-B08G	HDSP-B08G	HDSP-B08G	DS1	Four Digit Seven Segment Display, Vf = 2.20V, If = 20mA	1
SOT23-5N	TPS60401DBVT	TPS60401DBVT	IC1	Unregulated 60mA Charge Pump Voltage Inverter	1
LGA14-3X5X1	MMA7368LT	MMA7368LT	IC2	+/- 1.5g Three Axis Low-g MEMS Accelerometer, Analog Out	1
LQFP-64	MC9S08JM60	MC9S08JM60	IC3	8-Bit MCU, HCS08 Core, 60KB FLASH, 4KB RAM, USB	1
APDS-9002	APDS-9002-021	APDS-9002-021	IC4	Miniature SMD Ambient Light Photo Sensor, 2.4V - 5.5V	1
SC70-5	LMT87DCKT	LMT87DCKT	IC5	Analog Temperature Sensor, -50 to +150C, 2.7V - 5.5V	1
FDCC0802C	FDCC0802C	FDCC0802C	IC6	LCD Character Display Module, NSTN, 8x2, 3.3V	1
SOT23-5N	SPX3819M5	SPX3819M5	IC7	LDO Voltage Regulator, 5V, 500mA	1
SOT23-5N	SP6205EM5	SP6205EM5	IC8	LDO Voltage Regulator, 3.3V, 500mA	1
MC122032B6W	MC122032B6W	MC122032B6W	IC9	LCD Graphic Display Module, STN, 122px x 32px, 5V	1
TSSOP-20N	TXB0108PWR	TXB0108PWR	IC10	8-BIT BIDIRECTIONAL VOLTAGE-LEVEL TRANSLATOR WITH AUTOMATIC DIRECTION SENSING AND ±15-kV ESD PROTECTION	1
USB1X90B-PCB	USB-B	Connector USB-B	J1	USB Receptacle, Right Angle, Thru-Hole, B Type, 4 Position,	1
KLD-0202-B	Connector PWR2.5	Connector PWR2.5	J2	Low Voltage Power Supply Connector	1
HDR1X2	Header 2	Header 2	JP1, JP2	Header, 2-Pin	2
L0603	MPZ1608D600B	Inductor	L1	Inductor	1
HDR2X3	Header 3X2	Header 3X2	P1	Header, 3-Pin, Dual row	1
HDR1X26	Header 26	Header 26	P2	Header, 26-Pin	1
SOT23	BC847C	NPN_BC847C	Q1	NPN General-purpose Transistor	1
R0805	10k	Res2	R1, R2, R10, R11, R13, R15, R25	Resistor	7
R0805	6k8	Res2	R3	Resistor	1
R0805	9k1	Res2	R4	Resistor	1
R0805	1M	Res2	R5	Resistor	1
R0805	1k5	Res2	R6	Resistor	1
R0805	33R @ 1%	Res2	R7, R8	Resistor	2
R0805	1k	Res2	R9	Resistor	1
R0805	8R2	Res2	R12	Resistor	1
R0805	5k6	Res2	R14	Resistor	1
R0805	41k2	Res2	R16	Resistor	1
R0805	270R	Res2	R17, R18, R19, R20, R21, R22, R23, R24	Resistor	8
B3FS	SW-PB	SW-PB	SW1	SPNO Push-Button; B3FS-1000 Series	1
SOT23	BC857C	PNP_BC857C	T1, T2, T3, T4	PNP General-purpose Transistor	4
HC49US	12MHz	XTAL	Y1	Crystal Oscillator	1
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Approved	Notes