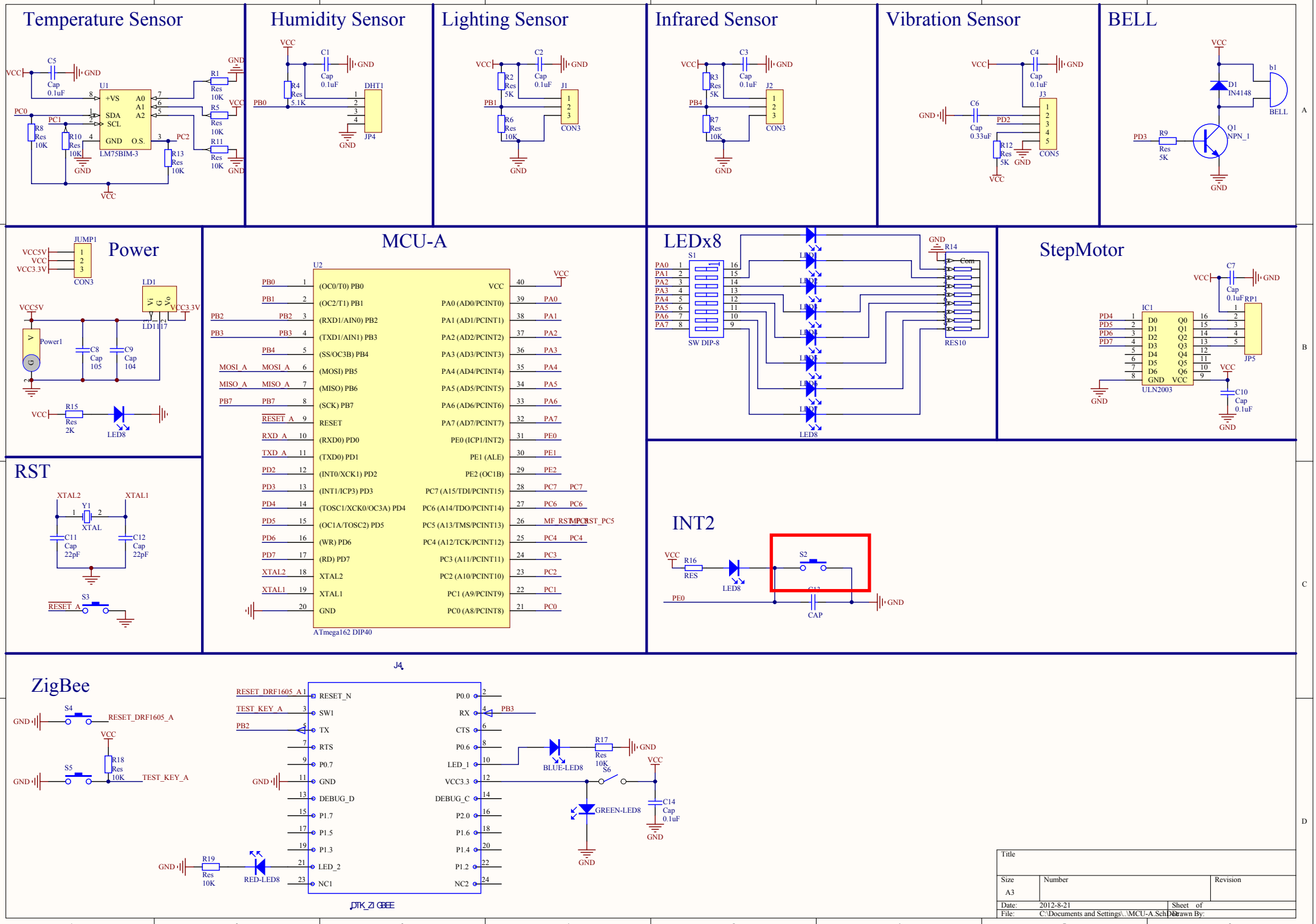
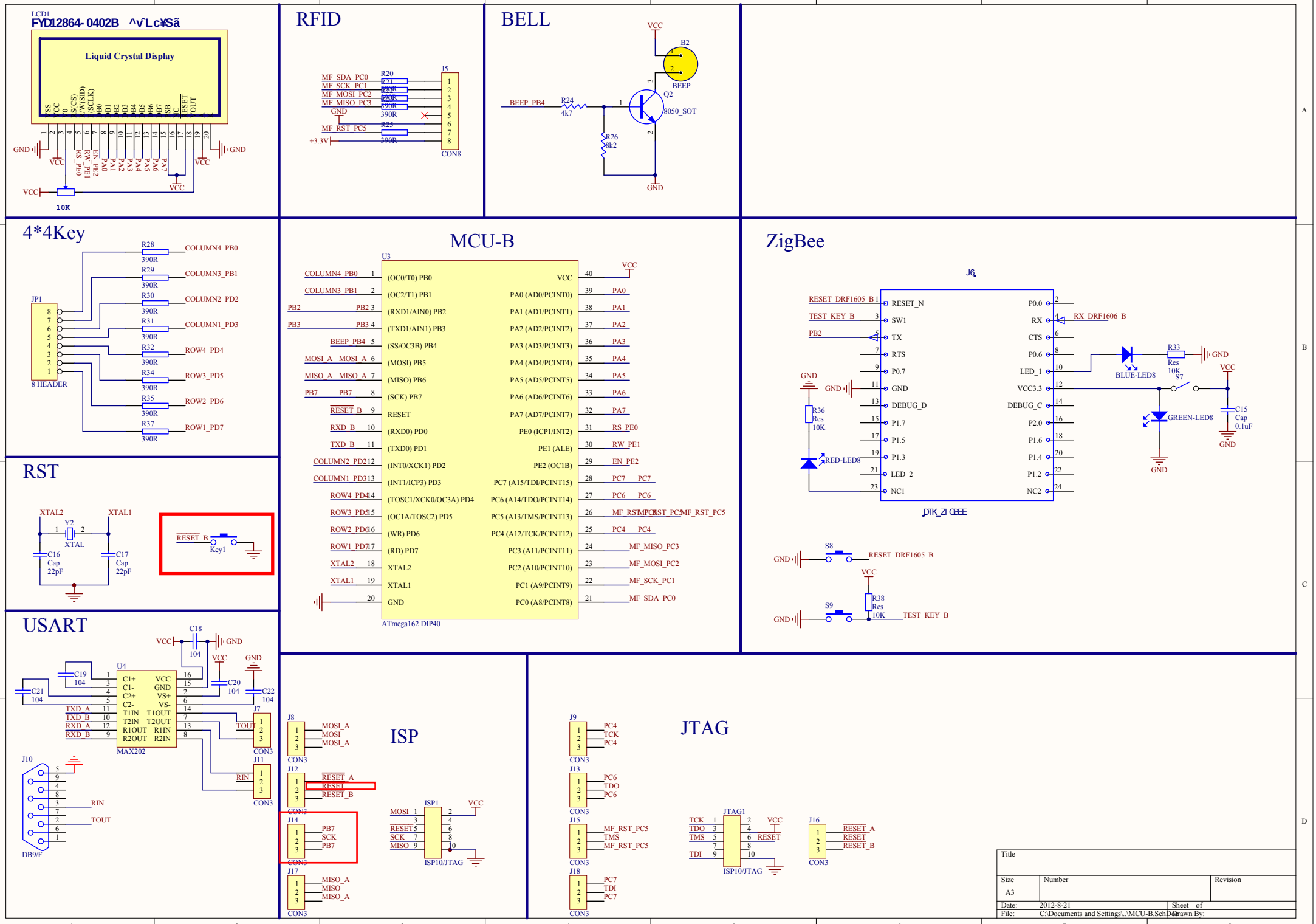

Temperature Sensor
Humidity Sensor
Lighting Sensor
Infrared Sensor
Vibration Sensor
BELL
Power
MCU-A
LEDx8
StepMotor
RST
INT2
ZigBee
LM75BIM-3
ATmega162 DIP40
SW DIP-8
RES10
ULN2003
Title
Size
A3
Number
Revision
Date: 2012-8-21
File: C:\Documents and Settings\...\MCU-A.Sch.Doc
Drawn By:


LCD1
FYD12864-0402B ^√Lc¥Sã
Liquid Crystal Display
10K
RFID
MF_SDA_PC0
MF_SCK_PC1
MF_MOSI_PC2
MF_MISO_PC3
MF_RST_PC5
+3.3V
R20
R21
R22
R23
R25
390R
J5
CON8
BELL
VCC
B2
BEEP
Q2
8050_SOT
BEEP_PB4
R24
4k7
R26
8k2
GND
4*4Key
JP1
8 HEADER
R28
R29
R30
R31
R32
R34
R35
R37
390R
COLUMN4_PB0
COLUMN3_PB1
COLUMN2_PD2
COLUMN1_PD3
ROW4_PD4
ROW3_PD5
ROW2_PD6
ROW1_PD7
MCU-B
U3
(OC0/T0) PB0
(OC2/T1) PB1
(RXD1/AIN0) PB2
(TXD1/AIN1) PB3
(SS/OC3B) PB4
(MOSI) PB5
(MISO) PB6
(SCK) PB7
RESET
(RXD0) PD0
(TXD0) PD1
(INT0/XCK1) PD2
(INT1/ICP3) PD3
(TOSC1/XCK0/OC3A) PD4
(OC1A/TOSC2) PD5
(WR) PD6
(RD) PD7
XTAL2
XTAL1
GND
VCC
PA0 (AD0/PCINT0)
PA1 (AD1/PCINT1)
PA2 (AD2/PCINT2)
PA3 (AD3/PCINT3)
PA4 (AD4/PCINT4)
PA5 (AD5/PCINT5)
PA6 (AD6/PCINT6)
PA7 (AD7/PCINT7)
PE0 (ICP1/INT2)
PE1 (ALE)
PE2 (OC1B)
PC7 (A15/TDI/PCINT15)
PC6 (A14/TDO/PCINT14)
PC5 (A13/TMS/PCINT13)
PC4 (A12/TCK/PCINT12)
PC3 (A11/PCINT11)
PC2 (A10/PCINT10)
PC1 (A9/PCINT9)
PC0 (A8/PCINT8)
ATmega162 DIP40
ZigBee
J6
RESET_N
SW1
TX
RTS
P0.7
GND
DEBUG_D
P1.7
P1.5
P1.3
LED_2
NC1
P0.0
RX
CTS
P0.6
LED_1
VCC3.3
DEBUG_C
P2.0
P1.6
P1.4
P1.2
NC2
RX_DRF1606_B
RESET_DRF1605_B
TEST_KEY_B
R33
Res
10K
BLUE-LED8
GREEN-LED8
S7
C15
Cap
0.1uF
R36
RED-LED8
S8
S9
R38
RST
XTAL2
XTAL1
Y2
XTAL
C16
C17
Cap
22pF
RESET_B
Key1
USART
U4
MAX202
C1+
C1-
C2+
C2-
T1IN
T2IN
R1OUT
R2OUT
VCC
GND
VS+
VS-
T1OUT
T2OUT
R1IN
R2IN
C18
C19
C20
C21
C22
104
TXD_A
TXD_B
RXD_A
RXD_B
TOUT
RIN
J7
J10
J11
DB9/F
CON3
ISP
J8
J12
J14
J17
MOSI_A
MOSI
RESET_A
RESET
RESET_B
PB7
SCK
MISO_A
MISO
ISP1
ISP10/JTAG
JTAG
J9
J13
J15
J18
J16
PC4
TCK
PC6
TDO
MF_RST_PC5
TMS
PC7
TDI
JTAG1
RESET
Title
Size
A3
Number
Revision
Date:
2012-8-21
Sheet of
File:
C:\Documents and Settings\...\MCU-B.SchDoc
Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
BEEP		B2	BEEP	BEEP	1
BELL		b1	bell	BELL	1
Cap	Capacitor	C1, C2, C3, C4, C5, C6, C7, C10, C11, C12, C14, C15, C16, C17	0603	Cap	14
Cap	Capacitor	C8, C9	0805	Cap	2
CAP		C13	RAD0.1	CAP	1
104	Capacitor	C18, C19, C20, C21, C22	RAD0.1	CAP	5
IN4148		D1	D0.3	IN4148	1
LED1		D2	LED-M3	LED	1
LED2		D3	LED-M3	LED	1
LED3		D4	LED-M3	LED	1
LED4		D5	LED-M3	LED	1
LED5		D6	LED-M3	LED	1
LED6		D7	LED-M3	LED	1
LED7		D8	LED-M3	LED	1
LED8		D9, D10, D11	LED-M3	LED	3
BLUE-LED8		D12, D15	LED-M3	LED	2
GREEN-LED8		D13, D16	LED-M3	LED	2
RED-LED8		D14, D17	LED-M3	LED	2
JP4		DHT1	P4-10	JP4	1
ULN2003		IC1	SOP16	ULN2003	1
ISP10/JTAG	ISP_10	ISP1, JTAG1	ISP_10	ISP_10	2
CON3	Connector	J1, J2, J7, J8, J9, J11, J12, J13, J14, J15, J16, J17, J18		CON3	13
CON5	Connector	J3		CON5	1
DTK_ZIGBEE		J4, J6	DTK_ZIGBEE	DTK_ZIGBEE.1	2
CON8	Connector	J5	SIP8	CON8	1
DB9/F		J10	DB9/F	DB9	1
8 HEADER	8 Pin Header	JP1		8 HEADER	1
CON3	Connector	JUMP1	SIP3	CON3	1
PB2		Key1	KEY	KEY	1
LCD12864-BK		LCD1	SIP20	LCD12864-BK	1
LD1117		LD1	LD1117-3.3	LD1117	1
5V	Power5	Power1	PWR_5V	Power5	1
NPN_1	NPN Transistor	Q1		NPN_1	1
8050_SOT		Q2	SOT-23	8050_SOT	1
Res	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R15, R17, R18, R19, R33, R36, R38	0603	Res2	20
RES10		R14	SIP9	RES10	1
RES		R16	AXIAL0.3	RES	1
390R		R20, R21, R22, R23, R25, R28, R29, R30, R31, R32, R34, R35, R37	0805	RES2	13
4k7		R24	0805	RES1	1
8k2		R26	0805	RES1	1
10K		R27	RESADJ	RES_3	1
JP5		RP1	P5	JP5	1
SW DIP-8	DIP Switch	S1		SW DIP-8	1
微动开关		S2, S3, S4, S5, S8, S9		微动开关	6
单刀开关		S6, S7		单刀开关	2
LM75BIM-3	Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	U1	M08A_N	LM75BIM-3	1
ATmega162 DIP40		U2, U3	DIP40 3M	ATmega162 DIP40	2
MAX202		U4	DIP16	MAX232	1
XTAL	Crystal Oscillator	Y1, Y2	CRYSTAL2	XTAL	2