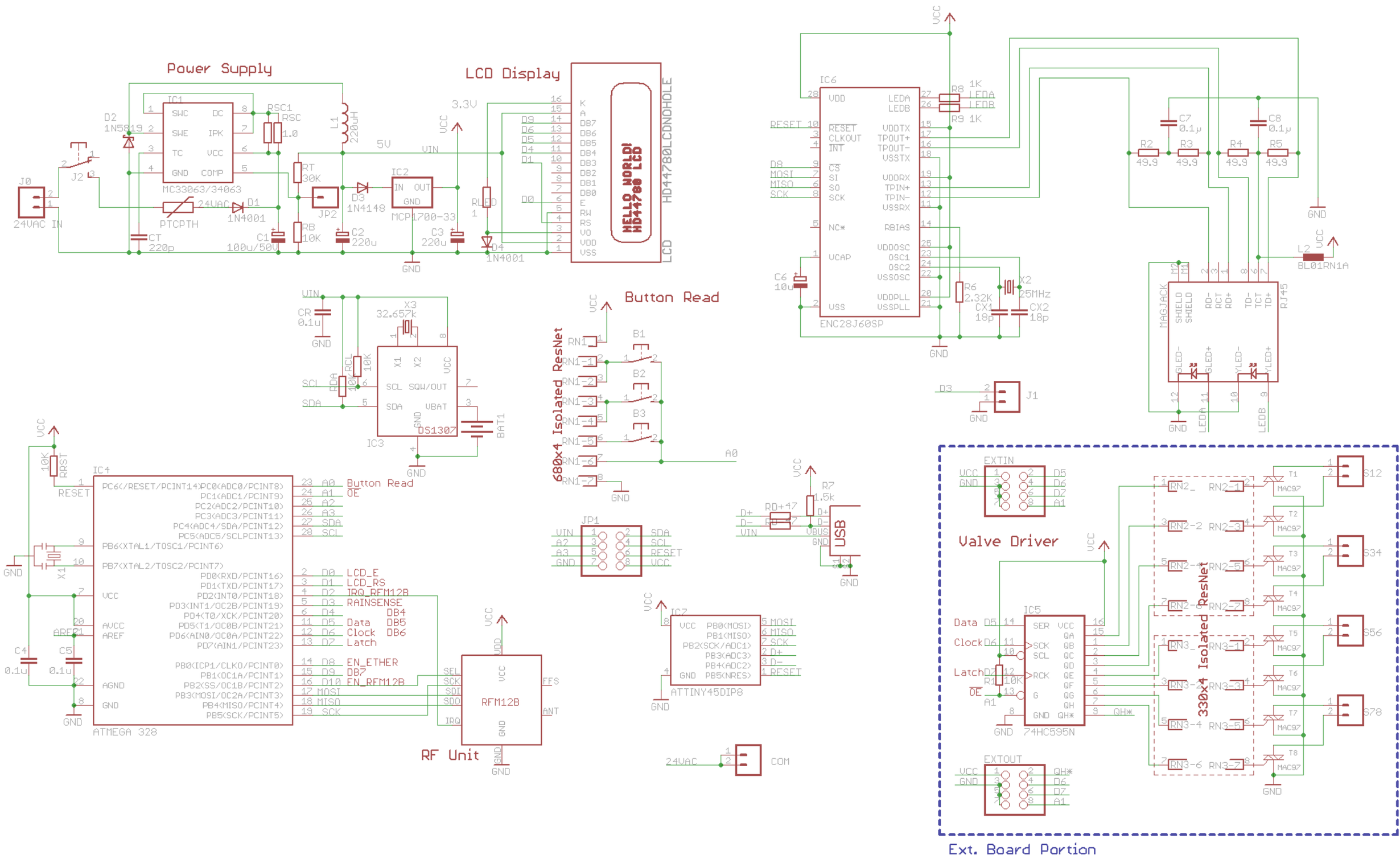
Power Supply
LCD Display
HD44780LCDNOHOLE
HELLO WORLD!
HD44780 LCD
LCD
IC1
MC33063/34063
SWC
SWE
TC
GND
DC
IPK
VCC
COMP
D2
1N5819
RSC1
RSC
1.0
L1
220uH
5V
VIN
3.3V
VCC
J0
24VAC IN
J2
PTCPTH
24VAC
D1
1N4001
CT
220p
C1
100u/50V
RT
30K
RB
10K
JP2
C2
220u
D3
1N4148
IC2
MCP1700-33
IN
OUT
GND
C3
220u
RLED
1
D4
1N4001
K
A
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
E
RW
RS
VO
VDD
VSS
D9
D6
D5
D4
D1
D0
IC6
ENC28J60SP
VDD
RESET
CLKOUT
INT
CS
SI
SO
SCK
NC*
UCAP
VSS
LEDA
LEDB
VDDTX
TPOUT+
TPOUT-
VSSTX
VDDRX
TPIN+
TPIN-
VSSRX
RBIAS
VDDOSC
OSC1
OSC2
VSSOSC
VDDPLL
VSSPLL
R8 1K
R9 1K
LEDA
LEDB
D8
MOSI
MISO
SCK
C6
10u
R6
2.32K
X2
25MHz
CX1
18p
CX2
18p
C7
0.1µ
C8
0.1µ
R2
49.9
R3
49.9
R4
49.9
R5
49.9
L2
BL01RN1A
MAGJACK
SHIELD
SHIELD
RJ45
RD-
RCT
RD+
TD-
TCT
TD+
GLED-
GLED+
YLED-
YLED+
D3
J1
X3
32.657k
CR
0.1u
SCL
SDA
RCL
10K
DS1307
SQW/OUT
VBAT
BAT1
IC3
Button Read
680x4 Isolated ResNet
RN1
B1
B2
B3
A0
JP1
VIN
A2
A3
GND
SDA
SCL
RESET
VCC
USB
D+
D-
VBUS
R7
1.5k
RD+47
IC4
ATMEGA 328
RESET
RRST
10K
X1
PC6(/RESET/PCINT14)
PC0(ADC0/PCINT8)
PC1(ADC1/PCINT9)
PC2(ADC2/PCINT10)
PC3(ADC3/PCINT11)
PC4(ADC4/SDA/PCINT12)
PC5(ADC5/SCL/PCINT13)
PB6(XTAL1/TOSC1/PCINT6)
PB7(XTAL2/TOSC2/PCINT7)
PD0(RXD/PCINT16)
PD1(TXD/PCINT17)
PD2(INT0/PCINT18)
PD3(INT1/OC2B/PCINT19)
PD4(T0/XCK/PCINT20)
PD5(T1/OC0B/PCINT21)
PD6(AIN0/OC0A/PCINT22)
PD7(AIN1/PCINT23)
PB0(ICP1/CLKO/PCINT0)
PB1(OC1A/PCINT1)
PB2(SS/OC1B/PCINT2)
PB3(MOSI/OC2A/PCINT3)
PB4(MISO/PCINT4)
PB5(SCK/PCINT5)
AVCC
AREF
AGND
GND
C4
0.1u
C5
0.1u
A0
Button Read
OE
A1
A2
A3
SDA
SCL
LCD_E
LCD_RS
IRQ_RFM12B
RAINSENSE
DB4
Data
DB5
Clock
DB6
Latch
DB7
EN_ETHER
EN_RFM12B
MOSI
MISO
SCK
RF Unit
RFM12B
SEL
SCK
SDI
SDO
IRQ
FFS
ANT
IC7
ATTINY45DIP8
VCC
PB0(MOSI)
PB1(MISO)
PB2(SCK/ADC1)
PB3(ADC3)
PB4(ADC2)
PB5(NRES)
MOSI
MISO
SCK
D+
D-
RESET
24VAC
COM
EXTIN
EXTOUT
Valve Driver
IC5
74HC595N
SER
SCK
SCL
RCK
G
GND
QA
QB
QC
QD
QE
QF
QG
QH
QH*
Data D5
Clock D6
Latch D7
R1
10K
OE
A1
RN2
RN3
330x4 Isolated ResNet
T1
T2
T3
T4
T5
T6
T7
T8
MAC97
S12
S34
S56
S78
Ext. Board Portion