VCC

RN1
4.7k

U2
74LS251

J1
Kbd_1

VCC

4	I0	VCC	16
3	I1		
2	I2	Y	5
1	I3	Ȳ	6
15	I4		
14	I5		
13	I6		
12	I7		
11	S0		
10	S1		
9	S2		
7	OE̅	GND	8

SW1
RST

RST

U3
74LS251

4.7k
RN2

VCC

4	I0	VCC	16
3	I1		
2	I2	Y	5
1	I3	Ȳ	6
15	I4		
14	I5		
13	I6		
12	I7		
11	S0		
10	S1		
9	S2		
7	OE̅	GND	8

J2
Kbd_2

U1
74LS138

15	O0	VCC	16
14	O1	A0	1
13	O2	A1	2
12	O3	A2	3
11	O4		
10	O5		
9	O6	E3	6
7	O7	E2	5
	GND	E1	4
8			

C1
22

C2
22

Y1
8Mhz

GND

VCC

ATmega48P-20P

14	PB0		
15	PB1		
16	PB2		
17	PB3	AREF	21
18	PB4		
19	PB5		
9	XTAL1/PB6		
10	XTAL2/PB7		
23	PC0		
24	PC1		
25	PC2		
26	PC3		
27	PC4		
28	PC5		
1	RESET/PC6		
2	PD0		
3	PD1		
4	PD2		
5	PD3		
6	PD4		
11	PD5		
12	PD6		
13	PD7	GND	8

AVCC 20
VCC 7

XTAL1
XTAL2

SDA
SCL
RST

GND

C3
100nF

VCC

GND

H1
MountingHole

H2
MountingHole

H3
MountingHole

VCC	4
SDA	3
SCL	2
GND	1

Display
J4

VCC	4
TXD	3
RXD	2
GND	1

Serial
J3

VCC

GND

U4

Terminal Keyboard Driver