

The Brain Parts List

<u>Ident.</u>	<u>Description</u>	<u>Part Number</u>
U1	Microcontroller 8Kx384x256, 10bit ADC	PIC16F877-20/L
U1	Socket 44PLCC	ED80024
U2..U9	32Kx8 serial eeprom	24LC256-I/SM
U10, U11	SN74AHC138 SO-16	296-4540-5
U12..U18	SN74AHC573DW	296-4612-5
U19	SN74AHC04D	296-4516-5
U20	NIC	RTL8019AS
U21	RTC-72421A	SE3231
U22	512Kx8 SRAM	TC554001AF-70L
U23	Reset IC TL7757CLP 4.55v	296-1992
U23 alt	Reset IC	MC34064P-5
U24	RS232 driver/receiver	MAX232ACSE
LCD	LCD w/ back light DMC-20481NY-LY-AGE	73-1095
LCD	Socket Header 16 pin	929850-01-36
LCD	Standoff #4-40 nylon (4)	1902CK
LCD	Machine Screw #4-40 x 1/4" pan phil (8)	
LCD	Header 16 pin	929647-02-36
L1	Transformer	FB2022
J1,J2	Header 40 pin Samtec	TSS-120-01-G-D
J3	RJ45	CCM9052
J4	DB9S	A23343
SW1..SW7	Switch 6mm button	EG1867CT
VR1	Regulator 5v	LM340AT-5.0
Y1	19.6608MHz SMT	XC701CT
Y2	20.000Mhz SMT	300-6142-1
D1,D2,D3,D4, D6,D7,D8,D9,D10,D11	LED SMT Yellow (10)	67-1367-1
D5	1N4148	1N4148
D12	1N4007	1N4007
C1,C2	15pf 0805 SMD (2)	PCC150CNCT
C3..C12,C14..C18, C20..31	0.1UF Mono SMD (26)	PCC1864CT
C13	100uf 50v Electrolytic	P5182
C19	220uf 50v Electrolytic	P6269
Q1	2N3906	2N3906
Q2	2N3904	2N3904
R1,R21,R22	Resistor 4.7K 1/16 watt 0805 SMD (3)	P4.7KACT
R2, R12..R17	Resistor 470 1/16 watt 0805 SMD (7)	P470KACT
R3, R23	Resistor 20K 1/16 watt 0805 SMD (2)	P20KACT
R4, R5, R6, R24	Resistor 1.0K 1/16 watt 0805 SMD (4)	P1.0KACT
R7	Resistor 200 1/16 watt 0805 SMD	P200ACT
R8, R9, R10	Resistor 10K 1/16 watt 0805 SMD (3)	P10KACT
R11, R20	Resistor 100 1/16 watt 0805 SMD (2)	P100ACT
R18	47K x9 SIP	4310R-1-473
R19	Resistor 10 1/16 watt 0805 SMD	P10ACT
R25	Resistor 4.7-6.8K 1/16 watt 0805 SMD (optional LCD contrast)	