

## NM101:

### SUGGESTED PARTS :

The following list of parts includes Digikey part numbers for your convenience. All of the parts are available from many other suppliers.

QTY	Value	Designator	Description	DIGIKEY Part nos
1	1K	R1	MIN QTY 5	1.0KQBK-ND
2	470	R2	Used also in D3 position	470QBK-ND
2	4.7K	R3,R4		4.7KQBK-ND
1	10uF Tant	C1	10v	P2026-ND
5	0.1uF	C4,C3,C2,C5,C10	min 10	399-2127-ND
1	22uF	C6	25V electrolytic	P5149-ND
1	1uF	C7	(optional) Reset cap	
2	22pF	C8,C9	Select for crystal 22pF typical	P4841-ND
1	LED	D1	Red	160-1124-ND
1	1N4148	D2	Signal Diode(optional) std package qty10	1N4148DICT-ND
1	1N5818DICT-ND	D3	Schottky Diode or 470 ohm resistor	1N5818DICT-ND / 470 ohm
1	1N4005	D4	Any 1N4000 series diode std package qty10	1N4005DICT-ND
1	MAX232A	U4	or equivalent 232A part (optional)	MAX232ACPE-ND
1	LM7805	U5	5 V Regulator or equivalent	LM 340T-5.0-ND
1	18 PIN DIL	U4	18 pin DIL IC socket	A9418-ND
1	DB9 F	J1	9 pin D connector PCB Right angled (optional)	A2100-ND
1	DC power jack	J2	DC Power jack 2.5mm	CP-002BH-ND
1	RJ11_6PIN	JP3	Low height	A9049-ND
1	HEADER 2	JP1	OR STRIP S1012-36-ND	WM6502-ND
1	HEADER 3	JP8	OF 36	WM6503-ND
1	Socket	JP2	Supplied custom socket (allows stacking)	
1	RESET switch	S1	Switch push button(optional)	P8009S-ND
1	Shorting jumper	JP8	min qty10	S9000-ND
3	Req for Universal board	U1,U2 and U3	socket strip for PICS cut to length	ED7064-ND
1	Your choice	Y1	Crystal or ceramic resonator	
1		Y1	3 positions cut from strip above	

Note if using the serial connection, a Max 232A or equivalent may be used. Make sure it is an "A" part otherwise the 0.1uF caps would need to be changed.

## Board Layout

