

## MorpheusMem+ Preliminary Parts List

<b>Qty</b>	<b>Optional</b>	<b>Description</b>	<b>Source</b>	<b>Part Number</b>	<b>MorpheusMem+ 1.00 PCB Placement</b>
4		BS62LV4006 512KB 55ns DIP32 SRAM	Jameco	1927617	SRAM
1	O2	MCP23S17 SPI I/O	DigiKey	MCP23S17-E/SP-ND	MCP23S17
1	O1	MAX3232	DigiKey	MAX3232CPE+-ND	MAX3232
1		74HC139	DigiKey	568-1400-5-ND	74HC139
1	O1	2N3904	DigiKey	2N3904FS-ND	E\$1
1	O1	DB9 Female socket, PCB mount	DigiKey	A35108-ND	RS232-DCE
2	O2	2x5 male header	DigiKey	609-3387-ND	H-COMM1
1		2x20 female stacking header	ML	SSHS-120-D-10-G-LF	MORPHBUS
1		1X10 female stacking header	ML	SSHQ-110-S-10-G-LF	EXP1
1	O3	1x9 female header for SD	DigiKey	S4009-ND	SDSLOT
1	O1	1X5 female stacking header	ML	SSHQ-105-S-10-G-LF	H-COMM1
1	O1	1x3 male option header	DigiKey	WM6403-ND	DTR-RTS
1	O1	1x2 male reset enable	DigiKey	WM6402-ND	RSTEN
2	O1	2 pin .1" shorting cap	DigiKey	A26242-ND	DTR-RTS, RSTEN
1	O3	9 pin molex right angle locking M/M conn	DigiKey	WM4307-ND	used as socket for SD card
4		32 pin IC socket	DigiKey	3M5470-ND	SRAM
1	O2	28 pin IC sockets	DigiKey	3M5480-ND	MCP23S17
1		16 pin IC socket	DigiKey	3M5465-ND	MAX3232
1	O1	16 pin IC socket	DigiKey	3M5465-ND	74HC139
2	O1	10K resistor	DigiKey	CF1/810KJRCT-ND	R10K-1, R10K-2
8		2K2 resistors	DigiKey	2.2KEBK-ND	R240-1 .. R240-8
1	O3	12K SIP BUSSED 8 pin	DigiKey	CF1/810KJRCT-ND	20K-BUS-SIP Cut pin 8's leg off
5		100nf ceramic decoupling capacitors	DigiKey	490-3873-ND	C1-C4, C6, C7
1	O1	10nf ceramic cap for reset	DigiKey	399-4326-ND	C8
1	O2	100nf ceramic decoupling capacitors	DigiKey	490-3873-ND	C5
5	O1	10uf electrolytic caps	DigiKey	493-3281-ND	C9-C13

O1 = RS232 PORT, O2 = 16 BIT PARALLEL I/O EXPANDER, O3 = SD CARD INTERFACE

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