

## Morpheus Preliminary Parts List

<b>Qty</b>	<b>Description</b>	<b>Source</b>	<b>Part Number</b>	<b>Morpheus 1.00A PCB Placement</b>
2	P8X32 (Propeller) microcontroller	DigiKey	P8X32A-D40-ND	CPU1, CPU2
1	BS62LV4006 512KB 55ns DIP32 SRAM	Jameco	1927617	SRAM
2	MC24L256 EEPROM	DigiKey	24LC256-I/P-ND	EEPROM, EEPR2 (top,bottom)
1	PCF8563 RTC	DigiKey	568-1067-5-ND	RTC
1	W25X80 FLASH	DigiKey	W25X80AVDAIZ-ND	FLASH2
1	23K256 SRAM	DigiKey	23K256-I/P-ND	FLASH1
1	74HC139	DigiKey	568-1400-5-ND	74HC139
2	74HC574	DigiKey	568-1480-5-ND	UH, UL
2	5mhz xtal	DigiKey	X410-ND	XTAL, XTAL1
1	32768khz clock crystal	DigiKey	300-8303-ND	32.768KHZXTAL
1	7805 voltage regulator	DigiKey	LM7805CT-ND	7805
1	AS2810-3.3 voltage regulator	DigiKey	LM1117T-3.3-ND	LMM1117-3.3
1	1N4007	DigiKey	1N4007FSCT-ND	DIODE, next to RTC
1	CUI/MODE 3.5mm 3 pin stereo jack	DigiKey	CP1-3523N-ND	Far left on top, needs drilling
2	PS/2 Female socket, PCB mount	DigiKey	CP-2260-ND	MOUSE, KEYBOARD
1	VGA female socket	DigiKey	609-2802-ND	Female (next to Keyboard)
1	2.1mm DC power jack – or 2 wire term	DigiKey	CP-002A-ND	R of VGA USE 2 WIRE SCREW TERM
1	mini slide switch – or screw terminal	DigiKey	679-1839-ND	PWRSW
1	2x20 female header	ML	SSHQ-20-D-02-T	MORPHBUS
2	1X10 female header	ML	SSHQ-10-S-02-T	EXP1, EXP2
2	1X5 male header	ML	TSHC-105-S-08-G7-LF	H-COMM1, H-COMM2
2	40 pin IC sockets	DigiKey	3M5471-ND	CPU1, CPU2
1	32 pin IC socket	DigiKey	3M5470-ND	SRAM
2	20 pin IC sockets	DigiKey	3M5465-ND	UH, UL
1	16 pin IC socket	DigiKey	3M5465-ND	74HC139
5	8 pin IC socket	DigiKey	3M5473-ND	EEPROM, EEPR2, FLASH1, FLASH2, RTC

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2	270R resistors vs/hs	DigiKey 270EBK-ND	R9, R10
3	470R resistors vga	DigiKey ND	R2, R5, R8
3	1k resistors vga	DigiKey RNF1/4T11KFRCT-ND	R1, R4, R7
2	2k resistors vga	DigiKey RNF1/4T12KFRCT-ND	R3, R6
8	2K2 resistors (ram,flash)	DigiKey 2.2KEBK-ND	R20-R27
13	10K resistor (kb,mou,aud,ee,pullup)	DigiKey CF1/810KJRCT-ND	R10-R19, R28, R29, 2 <sup>nd</sup> R11 above HCOM2
1	20pf trim cap for rtc	DigiKey 490-1959-ND	TRCAP
2	10nf ceramic caps for audio out	DigiKey 399-4326-ND	C3, C4
9	100nf ceramic decoupling capacitors	DigiKey 490-3873-ND	C5-13
2	1uf ceramic capacitors for audio	DigiKey 478-3195-ND	C1, C2
4	10uf electrolytic caps for vregs, cpus	DigiKey 493-3281-ND	C14, C15, 2 Caps between VREG's
1	470uF capacitor for RTC	DigiKey P1158-ND	TBAK