

FileStore E01E CPU Board BOM

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
A1,2,3,4,5,6	47n	Ceramic capacitor			6
B	100uF/25V	Electrolytic capacitor			1
B1	3.6V	NiMH battery			1
C1	22p	Ceramic capacitor			1
C3	25p	Variable capacitor			1
C6,7	18p	Ceramic capacitor			2
D1,2,4	1N4148	Silicon diode			3
D3,5	1N5817	Schottky diode			2
IC1	MC146818/A	RTC	can be 'A' or non 'A' version		1
IC3	74HCT30	8-input NAND			1
IC7	27512	64k x 8-bit EPROM			1
IC9	512/1024 SRAM	64k/128k x 8-bit SRAM			1
IC12,13,17	74ALS139	Dual 1 of 4 decoder/demultiplexer			3
IC16	65C102	CPU			1
IC18	74HCT74	Dual D-type flip-flop			1
IC19	74HCT73	Dual JK flip-flop			1
IC20a,20b	74HCT02	Quad 2-input NOR gate			2
IC28	MC74VHC1GT125DT	Single non-inverting tri-state buffer			1
IC31	65C22	PIA			1
IC32	74LS244	8-bit tristate buffer			1
IC42	MCP120-450HI/TO	FileStore Reset			1
J1	8-way 0.1" header	Unused IC31 Port B	not fitted		1
LK1	2-way 0.1" header	Battery boost charge			1
LK2	2-way 0.1" header	Battery isolate			1
PL1	DIN 41612 AB 64-way	Right angle plug			1
Q1	BC213L	PNP transistor	must be 'L' versions		1
Q2	BC183L	NPN transistor	must be 'L' versions		1
R2,9,31,32	10K	250mW resistor			4
R3	5M6	250mW resistor			1
R4	470R	250mW resistor			1
R5a	150R	250mW resistor			1
R5b	15R	250mW resistor			1
R6	150K	250mW resistor			1
R7,8,20,43	2K7	250mW resistor			4
R10	330R	250mW resistor			1
R16	4M7	250mW resistor			1
R34,44	2K2	250mW resistor			1
R35	4K7	250mW resistor			1
SK2a	2-way 0.1" header	FS Mode LED			1
SK2b	2-way 0.1" header	FS Mode switch	Door switch		1
SK2c	2-way 0.1" header	Reset switch			1
SK5	26-way	3M	Printer interface		1
TP1	1.024Hz	RTC testpoint			1
X1	32.768kHz	Watch crystal			1
X2	8MHz	Crystal HC49u			1
IC3,18,19,20,23	14-pin	DIL socket			5
IC12,13,17	16-pin	DIL socket			3
IC32	20-pin	DIL socket			1
IC1	24-pin	DIL socket			1
IC7	28-pin	DIL socket			1
IC10	32-pin	DIL socket			1
IC16,31	40-pin	DIL socket			2

Offboard Parts

(SK2a)	Red 5mm		FS Mode LED		1
(SK2b)	SPST	Panel mount toggle switch	FS Mode switch		1
(SK2c)	SPST	Panel mount push switch	Reset switch	e.g. APEM 9533	1
	5HP 3U	Front panel with handle and fittings	for optional front panel	Verotec 957-235349	1
		Panel brackets	for optional front panel	Verotec 173-12525 or print your own	pair
	M2.5 x 10mm	Pan head screws	for optional front panel		4
	M2.5	Nuts	for optional front panel		4