

FileStore E01E SCSI Board BOM

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
A1,2,3,4,5,6,7,8,9,10,11,12,C101	47n	Ceramic capacitor			13
B1	22uF/16V	Electrolytic capacitor			1
C100,104,105	1uF	Ceramic capacitor (low ESR)	fit for BeebSCSI only	e.g. Murata RCER71H105K2DBH03A	3
C102,103	22p	Ceramic capacitor	fit for BeebSCSI only		2
D1,2	1N4148	Small signal diode			2
IC29	74HCT04	Hex inverter			1
IC30	74LS245	Octal bus transceiver with tri-state outputs	fit for FileStore only		1
IC33,34	74HCT74	Dual Positive-Edge-Triggered D Flip-Flops			2
IC35,200	74HCT138	3 to 8-line decoder	IC200 fit for Bus only		2
IC36,38	74HCT373	Octal transparent latch with 3-state outputs			2
IC37	74HCT240	Octal 3-state buffer/line driver/line receiver			1
IC39	7407	Hex buffer with open collector outputs			1
IC40	74HCT00	Quad NAND gate			1
IC41	74S04	Hex inverters			1
IC42	74HCT14	Hex inverting Schmitt trigger			1
IC43,44	7438	Quad 2-input NAND buffer			2
IC100	AT90USB1287	8-bit microcontroller	fit for BeebSCSI only		1
IC101	74AHC125	Quadruple Bus Buffers With 3-State Outputs	fit for BeebSCSI only		1
IC102	TLV75533PDBVR	3V3 LDO regulator	fit for BeebSCSI only		1
J100	6-way header 0.1"	Serial	fit for BeebSCSI only		1
J101	2-way header 0.1 "	LED	fit for BeebSCSI only		1
J102	2x5-way header 0.1 "	JTAG	fit for BeebSCSI only		1
J103	USB Socket Type A Vertical	USB	optional fit for BeebSCSI only		1
J104	MicroSD socket	MicroSD	fit for BeebSCSI only	Molex 105162-001	1
J200	34-way box header	1MHz Bus	fit for Bus only		1
J201	2-way header 0.1 "	Power	fit for Bus only		1
LK100	0.1" link	BeebSCSI INT/EXT	not used (made on PCB)		
LK200,201	Link	Select Bus or FileStore			2
PL1	50-pin 0.1" header	SCSI	fit for Winchester only		1
PL2	DIN 41612 AB 64-way	Right angle plug	for for FileStore only		1
R1,100,102,109	10K	250mW resistor	R1 always fitted, the rest BeebSCSI only		3
R101	470R	250mW resistor	fit for BeebSCSI only		1
R103,104	22R	250mW resistor	fit for BeebSCSI only		2
R105,106,107,108	47K	250mW resistor	fit for BeebSCSI only		4
R200,201	2K2	250mW resistor	always fitted		2
RP1a	220R / 10K x 8	SIL resistor pack	fit 220R for Winchester (SCSI bus termination), fit 10K x 8 for BeebSCSI	Bourns 4609X-101-221LF or 4609X-101-103LF	1
RP1b	330R x 8	SIL resistor pack	fit for Winchester only (SCSI bus termination)	Bourns 4609X-101-331LF	1
RP1c	220R x 5 / 10K x 8	SIL resistor pack	fit 220R x 5 for Winchester (SCSI bus termination), fit 10K x 8 for BeebSCSI	Bourns 4606X-101-221LF or 4609X-101-103LF	1
RP1d	330R x 5	SIL resistor pack	fit for Winchester only (SCSI bus termination)	Bourns 4606X-101-331LF	1
RP200a,b,201a,b	2K2 x 8	SIL resistor pack	fit for Bus only	Bourns 4609X-101-222LF	4
RP202a,b	2K2 x 4	SIL resistor pack	fit for Bus only	Bourns 4605X-101-222LF	2
X100	16MHz HC18u	Crystal	fit for BeebSCSI only		1
IC29,33,34,39,40,41,42,43,44	14-pin	DIL socket			9
IC35,200	16-pin	DIL socket			2
IC30,36,37,38,101	20-pin	DIL socket			5

Offboard Parts

	Micro SD memory card		for BeebSCSI only		1
	50-way ribbon cable		for Winchester only		1
	20-way ribbon cable		for 1MHz Bus only		1
	2-way power cable		for 1MHz Bus only		1
	5HP 3U	Front panel with handle and fittings	for optional FileStore front panel	Verotec 957-235349	1
		Panel brackets	for optional FileStore front panel	Verotec 173-12525 or print your own	pair
	M2.5 x 10mm	Pan head screws	for optional FileStore front panel		4
	M2.5	Nuts	for optional FileStore front panel		4

Generally 100 series components are fitted for BeebSCSI, 200 series for 1MHz Bus interface