

Ordering ESI-32 Parts

Main PCB

Parts can be ordered by written order or by phone. When ordering parts, you must order by E-mu part number. The minimum charge for parts orders is \$15.00. Emergency rush orders can usually be sent out the same day if the order is received by 11:00am PST. You can place a parts order between the hours of 8:30am and 5:30pm PST, Monday through Friday.

E-mu Customer Service Department: (408) 438-1921

Capacitors

Description	E-mu P/N	Quantity
10 μ F 25V Aluminum Radial	CA325	6
47 μ F 16V Aluminum Radial	CA326	3
100pF 50V Ceramic	CC413	5
680pF 50V Ceramic	CC415	4
3900 pF 50V Ceramic	CC416	4
.01 μ F 50V Ceramic	CC417	4
.047 μ F 50V Ceramic	CC418	6
.1 μ F 50V Ceramic	CC419	47
22pF 50V Ceramic	CC421	6
1000pF 50V Ceramic	CC423	10
4.7pF 50V Ceramic	CC424	2
2.2 μ F 16V Tantalum	CT323	6
1.0 μ F 16V Tantalum	CT326	7

Capacitor Locations

Capacitor Location	E-mu Part Number	Capacitor Location	E-mu Part Number
C1	CC421	C2	CC419
C3	CT323	C4	CC415
C5	CC417	C6	CC416
C7	CC419	C8, C9	CT323
C10	CC421	C11	CA325
C12, C13, C15	CC419	C14	CA325
C16, C18	CC419	C19	CC417
C20, C21	CT323	C22	CC417
C23, C24	CC419	C25, 26	CC416
C27	CC423	C28	CC415
C29, C31-C33	CC419	C34	CC417
C35	CC415	C36, C38	CC419
C37	CA325	C39	CC413
C40, C41	CT326	C42, C43	CC418
C44	CC424	C45	CC413
C46, C48	CC418	C47	CA325
C49	CC413	C50, C53	CT326
C51, C52	CC419	C54	CC424
C55	CC413	C56, C59	CT326
C57, C58	CC418	C60	CC419
C61, C62	CA326	C63, C64, C66, C68	CC423
C65, C67, C69-C74	CC419	C75, C76	CC421
C77, C78, C80, C82-C84	CC419	C79	CA326
C81	CT323	C82-C84	CC419
C85	CT326	C86	CC423
C87-C94, C96, C97	CC419	C95, C98	CC423
C99-C101	CC419	C102, C103	CC421
C104, C106	CC419	C105, C109	CC423
C107, C108	CA325	C110	CC413

Integrated Circuits

Description	E-mu P/N	Quantity
74HCT245 CMOS	IC385	1
G-chip Sound Engine (2.0)	IC402	1
H-chip Digital Filter (1.5)	IC413	1
SAA7360 16/18-bit ADC	II376	1
AD1860 18-bit Serial DAC	II379	4
82078 Floppy Disk Controller	II382	1
+5V 1A Regulator	IL307	1
5532 Dual Op Amp	IL326	3
79L05 -5V 100mA Regulator	IL338	1
TL072 Dual Op Amp	IL354	2
93C46 64 x 16 EEPROM	IM400	1
68306 CPU	IM409	1
256K x 16 CMOS DRAM	IM415	1
Main LSB Software Prom (v2.1)	IP807	1
Main MSB Software Prom (v2.1)	IP808	1
74ACT138 3-8 Demux.	IT426	1
74ACTQ74 F/F Dual	IT439	2
74HC4052 Mux./Demux.	IT448	3
74HCT299 Shift Register	IT451	2
74HCT393 Ripple Counter	IT452	2
PC400 Opto Isolator	OE303	1

Integrated Circuit Locations

IC Location	E-mu Part Number
U1, U5	IL326
U2, U4, U6	II379
U3	IT448
U7, U8	IL354
U9	II379
U10	IT448
U11	ZX316
U12	II376
U13	IT448
U14	IL326

IC Location	E-mu Part Number
U15	IC385
U16	IP804
U17	IT451
U18	IM415
U19	IP807
U20	OE303
U21	IT452
U21	IT451
U22	IM400
U23	II382
U24	IT452
U25	IC413
U26	IP787
U27	IC402
U28	IT426
U29	IT450
U30, U32	IT439
U31	IT452
U33	ZX316
U34	IM409
VR1	IL338
VR2	IL307

Resistors

Description	E-mu P/N	Quantity
1.33K Ω , 1/10W, 1%	RP389	18
2.37K Ω , 1/10W, 1%	RP390	4
2.67K Ω , 1/10W, 1%	RP391	6
10K Ω , 1/10W, 1%	RP392	8
100K Ω , 1/10W, 1%	RP393	3
22.1K Ω , 1/10W, 1%	RP399	2
10K Ω , 1/4W, 5%	RR309	1
150K Ω , 1/10W, 1%	RP413	2
47 Ω , 1/10W, 5%	RR409	32
150 Ω , 1/10W, 5%	RR410	38
270 Ω , 1/10W, 5%	RR411	20
1K Ω , 1/10W, 5%	RR412	21
27K Ω , 1/10W, 5%	RR413	6
100K Ω , 1/10W, 5%	RR414	8
330K Ω , 1/10W, 5%	RR417	2
3.9K Ω , 1/10W, 5%	RR431	2
4.7K Ω , 1/10W, 5%	RR432	2
10K Ω , 1/10W, 5%	RR434	31
4.7 Ω , 1/10W, 5%	RR439	5
4.3K Ω , 1/10W, 5%	RR442	2
13K Ω , 1/10W, 5%	RR445	2
22 Ω , 1/2W, 10%	RW307	2

Resistor Locations

Resistor Location	E-mu Part Number	Resistor Location	E-mu Part Number
RN1-RN3	RN347	R1	RP392
R2	RR410	R3	RP391
R4	RP392	R5	RP390
R6	RW307	R7	RR412
R8, R9	RP389	R10	RR434
R11	RR413	R12	RR412
R13	RR409	R14	RR410
R15	RP392	R16	RR439
R17	RR414	R18	RR413

Resistor Location	E-mu Part Number	Resistor Location	E-mu Part Number
R19	RR412	R20	RW307
R21	RP391	R22	RR439
R23	RR412	R24	RR409
R25	RP392	R26	RP390
R27	RR410	R28	RR434
R29, R30, R32	RP389	R31, R33	RR410
R34	RR412	R35	RR409
R36	RP391	R37	RR412
R38, R41, R42	RP389	R39	RP390
R40	RR410	R43	RR412
R44, R46, R47	RR410	R45	RP389
R48, R50	RR412	R49, R52	RP389
R51	RP391	R53, R56	RR410
R54	RP390	R55	RP389
R57	RR412	R58, R59	RR410
R60	RP391	R61	RR442
R62, R64	RR414	R63, R66	RP389
R65, R68, R70	RR434	R67	RP392
R69	RR439	R71	RP399
R72	RR409	R73	RP393
R74-R76	RR410	R77	RR432
R78	RR439	R79	RR417
R80	RR414	R81	RP389
R82	RR442	R83	RP393
R84, R85, R88	RR411	R86	RP391
R87	RR445	R88	RR411
R89	RP389	R90	RP392
R91	RR417	R92	RR411
R93	RP393	R94	RP389
R95, R96	RR410	R97	RR432
R98	RR439	R99	RR414
R100	RP399	R101	RR431
R102, R104	RP392	R103	RP389
R105	RR412	R106	RR414
R107	RR434	R108	RR431
R109	RR411	R110	RR410
R111-R113	RR434	R114, R115	RR411

Resistor Location	E-mu Part Number	Resistor Location	E-mu Part Number
R116-R119	RR410	R120, R121	RR434
R122-R126	RR412	R127, R128, R130, R131	RR409
R129, R132	RR434	R135-R138, R141	RR409
R142	RR434	R143	RR413
R144	RR446	R145, R146	RR409
R147, R149	RR410	R148, R150-R153	RR434
R154-R160, R162	RR411	R161, R164	RR410
R163, R167	RR434	R165	RR409
R166, R168	RR410	R169	RR412
R170	RR434	R171, R173, R175, R177	RR409
R172	RR410	R174	RR414
R176	RR434	R178, R181	RR413
R179, R180, R182	RR409	R183	RR434
R184, R186	RR410	R185	RR413
R186, R192	RR410	R187	RR445
R188, R193	RR411	R189-R191, R194	RR409
R195	RR410	R196, R197	RR411
R198	RR414	R199	RR412
R200	RR411	R201, R204, R205	RR410
R202, R203	RR409	R206	RR412
R207-R209, R211	RR434	R210, R212, R213	RR409
R214	RR410	R215, R217, R218	RR434
R216, R219	RR412		

Other Components

Description	E-mu P/N	Quantity
SMD914 Switching Diode	DD316	7
Transient Suppressing Zener Diode	DD324	3
2N3906 PNP Transistor	QQ308	5
3904 NPN Transistor	QQ309	8
750Ω @ 100MHz Ferrite Inductor	ZI306	1
65Ω @ 100MHz Inductor	ZI319	3
20 x 4 BKLITE DC to AC Inverter	ZV310	1
24MHz Parallel 18pF Crystal	ZX315	1
45.1584MHz Crystal Oscillator	ZX316	1
16MHz Parallel 18pF Crystal	ZX318	1

Other Component Locations

Component Location	E-mu Part Number
D2, D3, D5-D7, D9, D10	DD316
D1, D4, D8	DD324
Q1, Q4, Q9-Q11	QQ308
Q2, Q3, Q5-Q8, Q12, Q13	QQ309
L1, L2-L4	ZI319
L3	ZI306
VR3	ZV310
Y1	ZX315
Y2	ZX318

Connectors

Description	E-mu P/N	Quantity
1/4" Phone Jack, Closed Ring	JA309	6
PROM Socket	JC349	2
CPU Socket	JC350	1
30 Pos. D-row SIMM Socket	JC356	1
Triform 5-pin DIN Jack (MIDI)	J1327	1
30-pin SIMM Socket	JC362	1
5 pos. Right Angle Connector	J1327	1
6 pos. Male Locking Header	JP356	1
2 pos. Locking Power Header	JP378	1
4-pin Locking Power Header	JP380	1
20-pin Dual Row Ribbon Header	JR317	1
14-pin Single Row Ribbon Header	JR321	1
50-pin Dual Row Ribbon Header	JR327	1
2 x 0.1 Header Shunt	JR334	4
1 x 2 Header	JR335	3
34-pin Dual Row Header	JR338	2
3-pin Locking Header	JR360	2

Connector Locations

Connector Location	E-mu Part Number
CN1	J1327
CN2, CN3	JR360
CN4	JP380
CN5	JR327
CN6	JP356
CN7, CN8	JR338
CN10	JR321
CN11	JP378
CN12	JC356
CN13	JR317
J1-J6	JA309
U16, U19	JC349
U26	JC350
W2-W4	JR334
W2-W4	JR335

*Additional Part
Numbers and
Locations*

For part number and location information on the ESI-32 front panel, S/PDIF Option, or SCSI Option PCBs, refer to the tables in the ESI-33 Section.

