

Small Computer Central

SC126, v1.0, Parts List

These are the parts required to build SC126, v1.0, Z180 Motherboard. (<https://smallcomputercentral.wordpress.com/sc126-z180-motherboard-rc2014/>)

<i>Reference</i>	<i>Qty</i>	<i>Component</i>
PCB	1	SC126, v1.0, PCB (https://smallcomputercentral.wordpress.com/sc126-z180-motherboard-rc2014/sc126-v1-0-pcb/)
options	2	Header, male, 1 row x 40 pin, angled (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-angled/)
options	2	Header, male, 1 row x 40 pin, straight (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-straight/)
options	5	Header, female, 1 row x 6 pin, angled (https://smallcomputercentral.wordpress.com/components/header-female-1-x-6-pin-angled/)
options	5	Header, female, 1 row x 6 pin, straight (https://smallcomputercentral.wordpress.com/components/header-female-1-x-6-pin-straight/)
B1	1	Battery holder, CR2032
C1 to C14	14	Capacitor, ceramic, 100 nF (https://smallcomputercentral.wordpress.com/components/capacitor-ceramic-100-nf/)
C15	1	Capacitor, electrolytic, 100 μ F (https://smallcomputercentral.wordpress.com/components/capacitor-electrolytic-100-%c2%b5f/)
C16	1	Capacitor, ceramic, 1 nF (https://smallcomputercentral.wordpress.com/components/capacitor-ceramic-1-nf/)
J1	1	Socket, power, barrel, 2.1mm (https://smallcomputercentral.wordpress.com/components/socket-power-barrel-2-1mm/)
J2	1	Screw terminal, 2 way, 5.08mm pitch (https://smallcomputercentral.wordpress.com/components/screw-terminal-2-way/)
JP1 and JP2	2	Header, male, 1 row x 3 pin, angled (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-angled/) (cut from longer strip)
JP3 and JP4	2	Header, male, 1 row x 3 pin, straight (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-straight/) (cut from longer strip)
JP5	1	Header, male, 2 row x 2 pin, straight (https://smallcomputercentral.wordpress.com/components/header-male-2-x-40-pin-straight/)

Jumper shunts	7	Jumper shunt (https://smallcomputercentral.wordpress.com/components/jumper-shunt/)
LED1	1	LED, yellow, 3mm (https://smallcomputercentral.wordpress.com/components/led-yellow-3-mm/), or LED, orange, 3mm (https://smallcomputercentral.wordpress.com/components/led-orange-3-mm/)
LED2 to LED9	8	LED, green, 3mm (https://smallcomputercentral.wordpress.com/components/led-green-3-mm2/)
P1, 2, 3, 5, 6 See options	5	Header, female, 1 row x 6 pin, angled (https://smallcomputercentral.wordpress.com/components/header-female-1-x-6-pin-angled/) Header, female, 1 row x 6 pin, straight (https://smallcomputercentral.wordpress.com/components/header-female-1-x-6-pin-straight/) Header, male, 1 row x 6 pin, angled (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-angled/) Header, male, 1 row x 6 pin, straight (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-straight/)
P4, 7, 8, 9, 10 See options	2	Header, male, 1 row x 2 pin, angled (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-angled/) Header, male, 1 row x 2 pin, straight (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-straight/)
P11, 12, 13, 15, 16 See options	5	Header, female, 1 row x 6 pin, straight (https://smallcomputercentral.wordpress.com/components/header-female-1-x-6-pin-straight/) Header, male, 1 row x 6 pin, straight (https://smallcomputercentral.wordpress.com/components/header-male-1-x-40-pin-straight/)
P14	n/a	There is no P14 on SC126 v1.0
R1 to R6	6	Resistor, 2k2, 0.25W (https://smallcomputercentral.wordpress.com/components/resistor-2k2-0-25w/)
R7 to R9	3	Resistor, 100k, 0.25W (https://smallcomputercentral.wordpress.com/components/resistor-100k-0-25w/)
R10	1	Resistor, 4k7, 0.25W (https://smallcomputercentral.wordpress.com/components/resistor-4k7-0-25w/)
R11 to R19	9	Resistor, 470R, 0.25W (https://smallcomputercentral.wordpress.com/components/resistor-470r-0-25w/)
R20 to R22	3	Resistor, 10k, 0.25W (https://smallcomputercentral.wordpress.com/components/resistor-10k-0-25w/)
RP1	1	Resistor pack, 8 x 10k, SIL, 9-pin (https://smallcomputercentral.wordpress.com/components/resistor-network-8-x-10k-sil/)
S1	1	Header, female, 2 row x 40 pin, angled (https://smallcomputercentral.wordpress.com/components/header-female-2-x-40-pin-angled/)
S2 and S3	2	Header, female, 2 row x 40 pin, straight (https://smallcomputercentral.wordpress.com/components/header-female-2-x-40-pin-straight/)
SW1	1	Switch, toggle, sub-miniature, SPDT (https://smallcomputercentral.wordpress.com/components/switch-toggle-sub-miniature-spd/)
SW2	1	Switch, tactile button (https://smallcomputercentral.wordpress.com/components/switch-tactile-button/)

U1 and U2	2	SST39SF040, 512k byte Flash (https://smallcomputercentral.wordpress.com/components/ic-flash-512k-bytes-39sf0407/)
U3	1	AS6C4008, 512k byte SRAM (https://smallcomputercentral.wordpress.com/components/ic-ram-512k-bytes-as6c4008/)
U4	1	74AHCT139 (https://smallcomputercentral.wordpress.com/components/ic-74ahct139-dual-2-to-4-line-decoder/)
U5	1	Z8S18033VSG (Z180 CPU) (https://smallcomputercentral.wordpress.com/components/ic-z180-cpu-33mhz-z8s18033vsg/)
U6 and U7	2	74HCT273 (https://smallcomputercentral.wordpress.com/components/ic-74hct273-8-bit-register-with-clear/)
U8	1	DS1302+ (https://smallcomputercentral.wordpress.com/components/ic-ds1302-real-time-clock/)
U9 and U10	2	74HCT138 (https://smallcomputercentral.wordpress.com/components/ic-74hct138-3-to-8-line-decoder/)
U11	1	74HCT125 (https://smallcomputercentral.wordpress.com/components/ic-74hct125-quad-buffer-3-state-outputs/)
U12	1	DS1233-5+ EconoReset (https://smallcomputercentral.wordpress.com/components/ic-ds1233-5-supervisor-reset/)
X1	1	Oscillator, 18.432 MHz (https://smallcomputercentral.wordpress.com/components/oscillator-18-432-mhz-8-pin/)
X2	1	Crystal, 32.768 kHz (https://smallcomputercentral.wordpress.com/components/crystal-32-768-khz/)
IC socket 8-pin U8, X1	2	8-pin PDIP socket (https://smallcomputercentral.wordpress.com/components/socket-dip-8-pin/)
IC socket 14-pin U11	1	14-pin PDIP socket (https://smallcomputercentral.wordpress.com/components/socket-dip-14-pin/)
IC socket 16-pin U4, 9, 10	3	16-pin PDIP socket (https://smallcomputercentral.wordpress.com/components/socket-dip-16-pin/)
IC socket 20-pin U6 and U7	2	20-pin PDIP socket (https://smallcomputercentral.wordpress.com/components/socket-dip-20-pin/)
IC socket 32-pin U1, 2, 3	3	32-pin PDIP socket (https://smallcomputercentral.wordpress.com/components/socket-dip-32-pin/)
IC socket 68-pin U5	1	68-pin PLCC socket (https://smallcomputercentral.wordpress.com/components/socket-plcc-68-pin/)