

Quantity	Manufacturer	Part #	Description
Electrical			
2	Yageo	SQP10AJB-4R7	Resistor, 4.7 ohm, 10W
1	Panasonic	ERG-2SJ160	Resistor, 16 ohm
1	FCI	68001-416HLF	Headers, 0.1" pitch, 16 pins
2	FCI	68002-408HLF	Headers, 0.1" pitch, eight pins
2	FCI	68002-406HLF	Headers, 0.1" pitch, six pins
1	Molex	39-29-9242	ATX connector, 24-pin
1	Molex	22-23-2031	Three-pin connector for fan
1	Molex	22-23-2021	Two-pin connector for thermistor
2	Yageo	MFP-25BRD52-2K2	Resistor, 2.2K ohm, 0.1%
1	Tyco	282834-6	Terminal block, six connector
2	Panasonic	ERJ-3GEYJ332V	Resistor, 3.3K ohm
4	Panasonic	ERJ-3GEYJ102V	Resistor, 1K ohm
1	Panasonic	ERG-1SJ510	Resistor, 51 ohm, 1W
1	Fairchild	RFD3055LE	Transistor, MOSFET N-Ch
1	Microchip	MCP3551-E/SN	ADC, 22-bit
1	Panasonic	ECA-1CM332	Capacitor, 3300 uF
1	Panasonic	ECA-1CM102	Capacitor, 1000 uF
1	ST	VNH3SP30	H-bridge IC
1	Custom		PCB, see open source design
1	Arduino	Uno	Arduino Uno
1	Custom		Peltier, Qmax = 84W, dT = 78K, I _{max} = 7.8A
1	Custom		Ribbon cable, 16-pin, female - female, 24"
1	Custom		Thermistor, NTC, 0-105 C, +/- 0.1 C, 10K, 0.033" polyimide tube
1	Custom		Kapton heater, 25W, 11.3V
1	Generic		LCD, HD44780 compatible, 20 chars, four rows, blue backlight
1	Custom		Micro ATX power supply, 200W, 14A on 12V rail, fan temperature control disabled, 24-pin ATX connector only
2	Molex	16020101	Terminal connector, 34 AWG
1	Molex	50-57-9502	Terminal housing, two-pin
1	Generic		USB cable, A to B, six feet
1	Generic		PSU power cord, USA plug, six feet
Mechanical - Lid			
2	McMaster-Carr	91249A201	Screw, black oxide finish phillips machine, 8-32 Thread, 1"
2	McMaster-Carr	91249A190	Screw, black oxide finish pan head phillips machine, 8-32 Thread, 5/16 " long

Quantity	Manufacturer	Part #	Description
	1 McMaster-Carr	5993K44	Knob, four arm, 1/2"-20 threaded insert, hole depth 5/8"
	1 Custom		Bolt, stainless steel, 1/2"-20, 1.4 " long, both ends flattened
	8 McMaster-Carr	91290A113	Screw, 12.9 socket head cap steel alloy, M3 thread, 8 mm length, 0.5 mm pitch
	1 Custom		Machined lid bracket, 6061 aluminum, see open source design
	1 Custom		Machined lid plate, 6061 aluminum, see open source design
	1 Custom		Machined lid heater plate, 6061 aluminum, see open source design
	4 McMaster-Carr	95610A130	Nylon 6/6 flat washer, M3 screw size, 6-8 mm OD, .67 - .93 mm thick
	4 McMaster-Carr	94639A299	Spacer, nylon, unthreaded, 1/4" OD, 1/8" length, #6 screw size
1 x 35mmx40mm	McMaster-Carr	8877K121	Insulation, white polyester, adhesive backed, 1/8 " thick
	7 McMaster-Carr	91290A120	Screw, 12.9 socket head cap steel alloy, M3 thread, 16 mm length, 0.5 mm pitch
	7 McMaster-Carr	90592A009	Nut, plain steel hex nut, M3 size, 0.5 mm pitch, 5.5 mm width, 2.4 mm height
	4 SDP/SI	A 9X25-0624	Shoulder bolt, 3/16" diameter, 8-32 thread, 3/5" sholder length, 5/16 " head diameter, 5/32 " head length, 3/32" hex (can change)
	4 McMaster-Carr	1986K3	Type 302 stainless steel compression, 1" length, 1/4" OD, .029" wire diameter, 8.33 lbs/inch, .49" compressed length
	1 Southco	E6-10-301-20	Hinge
	1 McMaster-Carr	1790A22	Three-way ball-style grab catch 1-11/16" H x 5/16" W, dull chrome finish
	2 McMaster-Carr	91099A228	Undercut head phil machine, 6-32 thread, 1" length, 82 degree head angle, .059" head height
	2 McMaster-Carr	91771A143	Undercut head phil machine, 6-32 thread, 3/16" length, 82 degree head angle, .059" head height
2.75"	McMaster-Carr	5231K35	Tubing, black PVC, 3/16" ID, 1/4" OD, 1/32" wall
50 ul	Loctite	37421	Loctite 271 red heavy duty threadlocker
Mechanical - Main			
	1 Custom		Machined mounting bracket, 6061 aluminum, see open source design
	1 Custom		Machined PCR block, 1080 aluminum, see open source design
	1 Custom		Machined hinge block, 6061 aluminum, see open source design
	1 Custom		Machined latch block, 6061 aluminum, see open source design
	1 Cooler Master	HYPER 101i CPU COOLER FOR INTEL	Heatsink/fan
	1 Custom		Laser cut case, see open source design
	1 Custom		Laser cut lid, see open source design
50 ul	Gardner Bender	LTR-400	Liquid tape, used for sealing thermistor connector
50 ul	Arctic Silver	Arctic Silver 5	Thermal compound, used for embedding thermistor
	4 McMaster-Carr	94639A300	Spacer, nylon unthreaded round, 1/4" OD, 3/16" length, #6 screw size
	20 McMaster-Carr	91290A120	Screw, 12.9 socket head cap steel alloy, M3 thread, 16 mm length, 0.5 mm pitch
	20 McMaster-Carr	90592A009	Nut, plain steel hex nut, M3 size, 0.5 mm pitch, 5.5 mm width, 2.4 mm height

Quantity	Manufacturer	Part #	Description
4	McMaster-Carr	91290A123	Screw, 12.9 socket head cap steel alloy, M3 thread, 20 mm length, 0.5 mm pitch
4	McMaster-Carr	93657A145	Spacer, nylon unthreaded round spacer, 8 mm OD, 10 mm length, M3 screw size
4	McMaster-Carr	93657A073	Spacer, female unthreaded round nylon 6/6, 5 mm body length, OD 10 mm, ID 5.3 mm, screw size M5
4	McMaster-Carr	92005A320	Screw, M5, pan head, steel, .8 mm pitch, 10 mm length, 10 mm head diameter, phil head
1	Custom		Machine adapter plate, 1080 aluminum, see open source design
4	McMaster-Carr	95610A130	Nylon 6/6 flat washer, M3 screw size, 6-8 mm OD, .67 - .93 mm thick
4	McMaster-Carr	92095A181	Screw, 18-8 SS, M3 screw, button head, 8mm length, 0.5 mm pitch
4x4x1cm	McMaster-Carr	8877K111	Insulation, firm white polyester felt sheeting, adhesive back, 1/16" thick
3x 4cmx4cm	Laird Technologies	A10462-02	Heat pad, 0.13 mm flexible graphite pad
1	Richco Plastic Co	AKKL-4756A-RT	Wire clip, ADHESIVE KWIK KLIP 15/32 - 9/16
4	AllStates	ABC-1	Flat ribbon cable clips
4	McMaster-Carr	94611A146	Nylon Philips head machine screw 6-32 thread, 3/8" length
4	Hammond Manufacturing	1421T5CL	Accessories for racks and cabinets 0.44 rubber foot
3	McMaster-Carr	94639A702	Nylon unthreaded round spacer 3/16" OD, 1/8" length, #4 screw size
1	McMaster-Carr	94639A660	Nylon unthreaded round spacer 3/16" OD, 5/8" Length, #4 screw size
4	McMaster-Carr	97263A115	1" nylon screw, round Philips head, 4-40 thread
4	McMaster-Carr	94900A005	Black nylon 6/6 hex nut 4-40 thread size, 1/4" width, 7/64" height
Tools			
1	McMaster-Carr	5984A23	Hex wrench, 2.5 mm hex, 2-3/16 length, blue
1	McMaster-Carr	7122A42	Hex wrench, 3/32" hex, 3.5 " long
1	McMaster-Carr	7289A12	Hex wrench, 2.0 mm hex, 2" length