

Mini-Backplane BOM

Designator	Part	Value	Footprint	Manufacturer	Quantity	Digikey Part Number	Unit Price	Total
J1	Header, Male Pins		AMP_640445-4		1	A1972-ND	\$0.27	\$0.27
J2	Header, Male Pins		AMP_640445-3		1	A19890-ND	\$0.26	\$0.26
J3	Header, Male Pins		AMP_640454-2		1	A19423-ND	\$0.15	\$0.15
JP1-JP3	Pin Header		PinHeader_01x02_P2.54mm		3	609-3507-ND	\$0.16	\$0.48
	Mating Connector for J1				1	A24113-ND	\$0.25	\$0.25
	Mating Connector for J2				1	A24112-ND	\$0.20	\$0.20
	Mating Connector for J3				1	A99613-ND	\$0.15	\$0.15
	Contacts for J1, J2				7	A31396-ND	\$0.35	\$2.45
	Contacts for J3				2	A100453CT-ND	\$0.10	\$0.20
	Shunts for JP1-JP3				3	S9000-ND	\$0.10	\$0.30
P1-P4	Card Edge Connector		EDAC_346-100-520-202		4	EDC346102-ND or ESA50DRSH-S288-ND	\$15.48	\$61.92
	Chassis		10"6"2in (L"W"H)	Hammond 1444-16	1	HM264-ND	\$20.48	\$20.48
	Cover		10"6in (L"W"H)	Hammond 1434-16	1	HM280-ND	\$11.00	\$11.00
	8V Power Supply		159"97"30mm (L"W"H)	Mean Well RSP 75-7.5	1	1866-4289-ND	\$36.93	\$36.93
	+16V and -16V Power Supplies		62.5"51"28mm (L"W"H)	Mean Well RS-15-15	2	1866-4129-ND	\$10.86	\$21.72
	Fuse Holder 10 A 250V 1 Circuit Cartridge Panel Mount			Wurth	1	732-11380-ND	\$1.86	\$1.86
	Fuse 1.25A 250V 5x20mm Slo-blow			Bel Fuse	1	507-1247-ND	\$0.25	\$0.25
	Rocker Switch SPST 10A (AC) 125 V Panel Mount, Snap-In			E-Switch	1	EG5617-ND	\$0.66	\$0.66
	Power Entry, IEC Appliance, 10A			DIT	1	4761-DAC-12F-ND	\$0.73	\$0.73
	Grommet, 0.375in, Rubber, Black			Keystone Electronics	1	36-745-ND	\$0.27	\$0.27
	Spade Connector, 18-22AWG, M3 (for +8V PS)				10	A135212-ND	\$0.45	\$4.50
	Spade Connector, 18-22AWG, M3 (for +/-16V PS)				14	298-20471-1-ND	\$0.42	\$5.87
	Quick-Connect Connector, 4.7mm				5	A27806CT-ND	\$0.26	\$1.30
	Bumper Cylindrical, Recessed Center 0.500" Dia			Keystone Electronics	4	36-720-ND	\$0.32	\$1.28
	Round Spacer #4 Nylon, 3/8in			Bivar, Inc.	4	492-1091-ND	\$0.10	\$0.40
	6-32xL3/8 in Self-Tapping Sheet Metal Screws (for cover)			Bolt Depot	4			
	4-40xL1/2 in Pan Head Machine Screw (for bumper feet)			Bolt Depot	4			
	#4 washer (for bumper feet)			Bolt Depot	4			
	4-40 nut (for bumper feet, double to lock)			Bolt Depot	8			
	4-40xL1 in Flat Head Machine Screw (for standoffs)			Bolt Depot	4			
	4-40 K-nut (for standoffs)			Bolt Depot	4			
	M3xL5 Hardware (for PS mount)			Bolt Depot	6			
	M3 washer (for PS mount)			Bolt Depot	6			
	M3 lock washer (for PS mount)			Bolt Depot	6			
	Black/White/Green/Red/Brown/Blue/Orange/Yellow 18-Gauge Wire							
Total								\$173.88