

Part	Vendor	Cost per unit	# per scanner	Quantity	Description	Website	Vendor part number	Order history, comments
<b>GPA parts</b>								
OPA549	Texas Instruments	21.6			Power op amp (10 A)		OPA549S-ND	
VF-S320-15A-CFS	CUI Inc	136.59			Power supply 15V, 23A, closed frame, fan 0.1Ohm resistor 50W(sink)/3W(no sink), non-inductive		102-2004-ND	Ordered two more on 12/3 for second prototype
TR50JBXR100	Stackpole	3.64			Schottky Rectifier Diode 35V reverse 9A average (DO-204AR radial)		90SQ035-ND	
90SQ035	Vishay	1.85						
VF-S320-48A	CUI Inc	117.98			Power supply 48V, 7.6A, switching, open frame			
LCM600Q-T	Emerson	211.63			Power supply 24V, 27A, switching, closed frame		454-1531-ND	
PCB COPPER CLAD 12X12" 1 SIDE	Digikey	33.26			2 oz. copper boards (12"x12")		PC11-T-ND	
PWR SUP 350W 24-48VOUT CVRENDFAN	Astec via Digikey	388.82			LPS350 power supply fan-cooled (350 W)		454-1230-ND	
KIT CONNECTOR MATING LPX350 OPA2228	Astec via Digikey	11.26			Connector kit for use with the LPS350 power supply		454-1242-ND	
	Digikey	1.34			Hall effect IC Sensor		620-1021-1-ND	
SENSOR CURRENT 25A BI 16SOIC	Digikey	3.74			25 Amp hall-effect current sensor		620-1334-1-ND TGHGCR1000FE-ND	
RES .1OHM 1% 100W CURRENT SENSE	Digikey	39.59			0.1 ohm, 100 W current sensor resistor		LT6105CMS8#PBF	
IC AMP CURRENT SENSE PREC 8MSOP	Digikey	2.11			IC current sensor		MAX9634HERS+TC	
IC AMP CURRENT SENSE 4UCSP	Digikey	1.83			IC current sensor		TGHGCR0500FE-ND	
RES .05OHM 1% 100W CURRENT SENSE	Digikey	39.59			0.05 ohm, 100 W current sensor resistor			
<b>GPA parts final (large order)</b>								
INA217	TI via Digikey	6.99		72	Instrumentation amp for analogue input		296-13645-1-ND	
5555165-1	TE conn vis Digikey	0.93		75	RJ12 jack, plastic		A31422-ND	
OPA2228	TI via Digikey	5.85		150	Operational amplifier, dual		OPA2228UA-ND	
INA105	TI via Digikey	8.66		75	Instrumentation amplifier for current sensor		INA105KU-ND	
THS4131CD	TI via Digikey	7.43		75	Differential amplifier for scope output		296-26681-5-ND	
UA78L05ACDR	TI via Digikey	0.28		75	5V regulator 100mA		296-1364-1-ND	
MC79L12ACD	TI via Digikey	0.46		75	-12V regulator 100mA		296-9604-5-ND	
UA78L12ACDR	TI via Digikey	0.3		75	12V regulator 100mA		296-15054-1-ND	
LT1027ECS8	LT via Digikey	4.65		75	5V reference		LT1027ECS8-5#PBF-ND	
534-11503	Vishay via Digikey	20.01			Potentiometer 50k, 10 turn		SP534-50K-ND	
OPA549	Digikey	15		150	high current op amp		OPA549T-ND	
399-3677-1-ND	digikey	0.38		250	CAP TANT 0.1UF 35V 20% 1206			
<b>Small parts for GPAs</b>								
P0.0ACT-ND	Digikey			24	0-ohm resistor 0805			
P402CCT-ND	Digikey			12	RES 402 OHM 1/8W 1% 0805 SMD			
P4.02KCCT-ND	Digikey			12	RES 4.02K OHM 1/8W 1% 0805 SMD			
P1.0KACT-ND	Digikey			24	RES 1.0K OHM 1/8W 5% 0805 SMD			
P10KACT-ND	Digikey			24	RES 10K OHM 1/8W 5% 0805 SMD			
P2.0MACT-ND	Digikey			6	RES 2.0M OHM 1/8W 5% 0805 SMD			
RG20P49.9KBCT-ND	Digikey			3	RES 49.9K OHM 1/8W .1% 0805 SMD			
445-1358-1-ND	Digikey			18	CAP CER 1UF 16V 10% X7R 0805			
445-1349-1-ND	Digikey			18	CAP CER 0.1UF 50V 10% X7R 0805			
399-1155-1-ND	Digikey			3	CAP CER 4700PF 50V 10% X7R 0805			
					CAP CER 220PF 50V 10% X7R 0805 (load inductance compensation in current feedback loop)			
311-1123-1-ND	Digikey			3				
399-5152-1-ND	Digikey			12	CAP TANT 10UF 20V 20% 1206			
399-9453-1-ND	Digikey			9	CAP TANT 0.33UF 25V 10% 1206			
399-3677-1-ND	Digikey			9	CAP TANT 0.1UF 35V 20% 1206			
511-1292-1-ND				9	LED 630NM RED WTR CLR 0805 SMD			
BR3FBR100-ND				3	RES CURRENT SENSE .1 OHM 3W 1%			
<b>Connectors for GPAs</b>								
A31422-ND	Digikey			3	CONN MOD JACK R/A 6P6C for input signal			
A98356-ND	Digikey			3	TERM BLOCK 3POS SIDE ENTRY 5MM			
A98078-ND	Digikey			3	TERM BLOCK 4POS SIDE ENTRY 5MM			
Power supply for GPA (CUI)	Digikey	117.38		50	PWR SUPPLY 320W 15V W/FAN		102-2004-ND	

4-40 nuts	Digikey						H216-ND
6-32 steel screws	Digikey					For attaching heat sinks to power amplifiers	H154-ND
6-32 nuts	Digikey					For attaching heat sinks to power amplifiers	H220-ND
<b>GPA Power Supply</b>							
Terminal blocks	Newark				6		94B1168
AWG 18 twisted pair	Mouser	197			1		566-5300UE-U1000-10
5 POS barrier jumper	Digikey	1.26	8	145		jumper for terminal blocks	WM4888-ND
terminal block 10 pos	McMaster Carr	4.16			70		7527K51
terminal block 10 pos	McMaster Carr	4.16	4	50		need additional terminal blocks to use inside magnet box	7527K51
Blue terminal lugs (spade)	McMaster Carr	12.6			4	pack of 100	69145K73
Red terminal lugs	McMaster Carr	12.16			4	pack of 100	69145K67
Yellow terminal lugs	McMaster Carr	10.52			4	pack of 50	8007K27
5 POS barrier jumper	Digikey	0.9984			60	jumper for terminal blocks	WM4888-ND
<b>Power supply/GPA housing</b>							
Box	Jameco	54			1	CASE, RACK MOUNT, 19 INCH ,88.1 mmX250mm,	GPB-021
Fuse 5A 250V	Jameco	0.69			40	FUSE 250V IEC FA HBC 5X20 ROHS	ET2/25B-R
AC plug receptacle	Jameco	2				RECEPTACLE, MALE, 10A@250V, FUSED	0216005.HXP
Illuminated rocker switch	Jameco	1.65			4	Switch Rocker ON OFF Single Pole, Single Throw Quick Connect Rocker 10A 250VAC	0717-1-R
Fan 12V 120x120x38 mm		8			1	Case fan	R13-73B-R-02
Grommet 5/32" ID,	McMaster Carr	5.54			1	For use with .158" OD AWG 18 twisted pair in enclosure	AFB1212SHE-4F1A
Grommet 5/32" ID	McMaster Carr	14			1	For use with .158" OD AWG 18 twisted pair in enclosure	9600K41
Grommet 1/8" ID	McMaster Carr	3.77			1	Snugger fit for AWG 18 twisted pair	9600K27
Cable grip straight	McMaster Carr	7.5			1	Includes strain relief	9600K11
<i>For going into production:</i>							
AC plug receptacle with switch	Jameco	9.95				non-illuminated switch with AC receptacle, fused at 6A	2114124
right-angle 6' AC cord	Jameco	4			23		117357
Heat shrink tubing kit	Jameco	20			1	Heat shrink tubing in various colors and sizes	2095947
Large enclosure for GPAs	Jameco	109	1	23		CASE, RACK MOUNT, 19 INCH ,217.5 mmX350mm,	132864
Bud NHC-14157 enclosure	Mouser	121	1	15		(alternative to out-of-stock Jameco) 17"x13"x7" no handles	563-NHC-14157
Banana plug, panel mount, black	Newark	0.65	3	100			39F1575
Banana plug, panel mount, red	Newark	0.65	3	100			39F1574
Banana plug for wire, male, black	Digikey	1.54	3	50		Solder to wire	J145-ND
Banana plug for wire, male, red	Digikey		3	50			J146-ND
Potentiometer for shim offset current control	Newark	10.5	3	80		BOURNS - 3590S-2-503L - POT, WIREWOUND, 50KOHM, 5%, 2W	62K3213
Insulated crimp lug AWG 10-12	Newark				125		93F5817
DB9 connector 9-pin	Newark	1.97	1	25		D-sub connector for GPA current monitor outputs to the scope	79K4993
Case fan	Jameco	6	1	23		80x80x25 mm	688597
Illuminated rocker switch	Jameco	1.65	1	23		Switch Rocker ON OFF Single Pole, Single Throw Quick Connect Rocker 10A 250VAC	R13-73B-R-02
AC plug receptacle	Jameco	2			23	RECEPTACLE, MALE, 10A@250V, FUSED	0717-1-R
fan guard 92 mm	Jameco	0.75			25		SC92-W2
terminal blocks 10-pos barrier-style	Newark					need more terminal blocks for inside the box	28F719
AWG18 multistranded wire 100'	Newark	85				black	02F6782
Terminal lug kit	Amazon.com	20	1			<a href="http://www.amazon.com/Northern-Industrial-Solderless-Electrical-Terminal/dp/B0000AXFOO/ref=sr_1_2?ie=UTF8&amp;qid=1357592027&amp;sr=8-2&amp;keywords=northern+industrial+solderless+elec">http://www.amazon.com/Northern-Industrial-Solderless-Electrical-Terminal/dp/B0000AXFOO/ref=sr_1_2?ie=UTF8&amp;qid=1357592027&amp;sr=8-2&amp;keywords=northern+industrial+solderless+elec</a>	
Contacts	digikey	0.0376	2	50		CONN TERM CRIMP XH 22-28AWG	455-1135-2-ND
JST XHP-2 connector	digikey	0.088	1	25		CONN HOUSING 2.5MM 2POS	455-2266-ND
XH crimp tool	digikey	466.56			1	TOOL HAND CRIMP XH 22-28AWG	455-1136-ND
AWG 14	Digikey	51.3	2 meters			100 feet of cable	C2105B-100-ND
AWG 24 twisted pair unshielded	Jameco	9.95			2	inexpensive 100' unshielded twisted pair (green & white)	105912
3-350816-2		\$0.15			150	Terminals INSULATED RECP 16-14 .187 x .020	
RJ11 cable 6P4C	CableWholesale	0.58	3	84		cablewholesale.com	8101-64101

AC power cord 6' long	Jameco	3.5	1	25	6 foot long AC power cord		38041
<b>Box built by Simon</b>							
Glue 3M Aerosol adhesive #76, 7610A17	McMaster Carr	23.23		5	24 oz. can		7610A17
Glue for joining plywood edges, 7466A7	McMaster Carr	19.2		2	High tack glue, 1Q bottle		7466A7
Brass shim stock roll, 9299K12	McMaster Carr	33.61	1	23	Thickness 0.002", W=12", L=120"		9299K12
Plywood	Boulter Plywood	\$563			Pick up pre-cut plywood pieces from Boulter plywood in Somerville, MA, (617) 666-1340 <i>BNC feedthrough for RF TX pulse (might not need this!)</i>		
BNC feedthrough	Newark	3.97	1	23	<i>SMA feedthrough (might not need this)</i>		93F7596
SMA feedthrough	Newark		1	23	front power feedthrus,		99H5038
filtered feedthru	digikey	4.17	6	150	plug with pigtail, 2.1x5.5x12		410-1038-ND
DC power connector	jameco	1.39	1	25	PCB mount male 2.1x5.5mm		2096763
DC power connector	jameco	0.39	1	25	2.5x5.5mm plug with pigtail		137673
DC power connector	jameco	1.39	1	25			2096771
Brass shim stock	McMaster Carr			1			
<b>Other stuff</b>							
POWER SUPPLY 24V 6.5A SGL OUTPUT LZY-22+	Digikey	35.5					285-1813-ND
G10/FR4 epoxyglass rod	McMaxster-Carr	16.7		4	GERR.312N epoxyglass rod		8669K32
<b>GRADIENT FILTER parts</b>							
Hammond aluminum enclosure	Newark	8		84	Ridgeless aluminum enclosure		81F3791
Stand-offs for filter boards	Newark	\$24 per 100 pcs		3	1/4" standoffs threaded for 6-32 screws		92N4901
Nylon screws (pack of 25)	Newark	1.82		10	6-32 screws for use with standoffs		09J5909
Inductor power 2.1UH 10A SMD	Digikey	0.88		160	Inductor for LC lowpass circuit		587-1693-1-ND
Inductor power 7.8 UH 10A SMD	Digikey	0.84		160	Inductor for LC lowpass circuit		SRP1250-7R8MCT-ND
Inductor power 5.6UH 10A SMD	Digikey	1.23		160	Inductor for LC lowpass circuit		541-1354-1-ND
Feed through capacitor	Digikey	4.17		200	Feed through capacitor for interface between gradient filter enclosure and magnet box		410-1038-ND
Filter capacitors 2200 pF 1206 surface mount	Newark	0.13		500	NP0		47C8783
Filter capacitors 820 pF 1206 surface mount	Newark	0.15		500	NP0		70K9344
<b>General use</b>							
SMA flange (Amphenol)	Newark	6.11		90	SMA flange for TR modules, RF coil chassis, etc.		99H5033
2-56 screws for mounting SMA flanges	Amazon.com						94070A106
4-40 screws brass	McMaster Carr			2			93135A271
4-40 Nylon screws	McMaster Carr			1			93135A272
4-40 Nylon screws	McMaster Carr			2			93135A276
4-40 Nylon screws	McMaster Carr			1			93135A279
Helping hand	McMaster Carr	18		3			5007A12
8-32 nuts	McMaster Carr			4			90480A009
8-32 screws	McMaster Carr			4	for mounting terminal blocks in enclosure cart		91735A194
6-32 steel screws 1.5" long pan head	McMaster Carr			2	for mounting fans to front panel		90272A157
6-32 nuts	McMaster Carr			2	for mounting fans to front panel for gradient filter boards and for pre-amp/tr switch board		91841A007
1902BK-ND	digikey	0.4585		175			
91772A117	McMaster Carr	\$4.57		1	18-8 SS Pan Head Phillips Machine Screw 4-40 Thread, 11/16" Length, packs of 100		
91772A112	McMaster Carr	\$4.32		1	18-8 SS Pan Head Phillips Machine Screw 4-40 Thread, 5/8" Length, packs of 100		
93135A271	McMaster Carr	\$4.89		3	Nylon Pan Head Machine Screw Phillips, 4-40 Thread, 3/16" Length, packs of 100		

<http://www.amazon.com/gp/offer-listing/B002KO44LL>

heat sinks for MEDUSA chips	Amazon	8		2	pack of 20 heat sinks		<a href="http://www.amazon.com/Cosmos-Aluminum-Cooling-Heatsinks-cooler/dp/B007XACV8O/ref=pd_sim_pc_1">http://www.amazon.com/Cosmos-Aluminum-Cooling-Heatsinks-cooler/dp/B007XACV8O/ref=pd_sim_pc_1</a>
standoffs 6-32 hex 1" male-to-female	McMaster Carr	13		1	package of 50	92745A346	
standoffs 6-32 hex 3/4" male-to-female	McMaster Carr	13		1	package of 50	92745A344	
standoffs 6-32 hex 1-1/4"	McMaster Carr	15		1	package of 50	92745A347	
switch for MEDUSA	Digikey	1.8		25	momentary push button switch (normally open) couldn't find 0.75" 6-32 female-female standoffs in nylon...	EG1930-ND	
standoffs aluminum 6-32 0.75" long	Digikey	0.5	4			2211K-ND	
SMD291AX10	Jameco	\$22.95		3	solder paste		
<b>Pre-amp/TR switch</b>							
Hammond 1590B enclosure	Newark	6.6		24	enclosure for TR modules	81F3791	
BNC feed through bulkhead	Digikey	3.5			transmit path from RF power amp into TR module		
GALI-74+	Minicircuits	2.1		24	module	A32335-ND	
SCLF-10+	Minicircuits	8.4		100	Amplifier		
P91W-1BK-ND	digikey	0.097		25	10 Mhz LP filter		
NCP1117DT12GOS-ND	digikey	0.35		50	91 Ohm resistor		
445-3937-1-ND	digikey	0.12		50	12 V regulator		
MJE243GOS-ND	digikey	0.57		250	2.2uF capacitors		
445-3942-1-ND	digikey	0.33		10	power npn		
M8654-ND	digikey	0.75		100	10 uF capacitors		
M8647-ND	digikey	0.6		50	68 uH choke		
191652	Jameco	9.95		50	2.2 uH choke		
101179	Jameco	0.39		1	15 V 1A unregulated linear power supply		
191652	Jameco	9.95	1	30	power supply jacks		
MPSA13RLRAGOSCT-ND	digikey	0.2132		25	15V 1A unregulated linear power supply		
MC7805CT-BPMS-ND	digikey	0.35		50	TRANS NPN DARL SS 30V TO92		
P91W-1BK-ND	digikey	0.1318		50	IC REG LDO 5V 1.5A TO220		
NCP7812TGOS-ND	digikey	0.3624		50	RES 91 OHM 1W 5% METAL OXIDE		
M8654-ND	digikey	0.75		50	IC REG LDO 12V 1A TO-220-3		
M8647-ND	digikey	0.6094		50	CHOKE RF MOLDED 68UH 10% FERRITE		
399-7043-1-ND	digikey	0.1176		50	CHOKE RF MOLDED 2.2UH 10% FERRIT		
P33W-1BK-ND	digikey	0.1318		250	CAP CER 0.1UF 100V 10% X7R 1210		
CF14JT2K70CT-ND	digikey	0.0219		50	RES 33 OHM 1W 5% METAL OXIDE		
RS150-ND	digikey	16.95		100	RES 2.7K OHM 1/4W 5% CARBON FILM		
P27W-1BK-ND	digikey	0.1318		2	KIT RES 1.0-1.0M 1/2W 73 VALUES		
60-5-5-ND	digikey	6.06		50	RES 27 OHM 1W 5% METAL OXIDE		
60-4-5-ND	digikey	5.56		1	SOLDER-WICK NO-CLEAN .145" 5'		
				2	SOLDER-WICK NO-CLEAN .110" 5'		
2.1 mm plug with pigtail	amazon	9.99			2.1 mm plug with pigtail, 10 per package (jameco part was backordered)		<a href="http://www.amazon.com/VideoSecu-Security-Camera-Pigtail-C58/dp/B000S7AQF4/ref=sr_1_6?s=electronics&amp;ie=UTF8&amp;qid=1357938682&amp;sr=1-6&amp;keywords=2.1mm+Plug+Power+Pigtail">http://www.amazon.com/VideoSecu-Security-Camera-Pigtail-C58/dp/B000S7AQF4/ref=sr_1_6?s=electronics&amp;ie=UTF8&amp;qid=1357938682&amp;sr=1-6&amp;keywords=2.1mm+Plug+Power+Pigtail</a>
DCCORD2.5	jameco	1.39		1	2.5 mm plug with pigtail		
4602-RC-ND	digikey	1.1344	1	25	CHOKE RF VARNISHED 1.0UH 20%		
MC7824CTGOS-ND	digikey	0.3624	1	25	IC REG LDO 24V 1A TO220AB		
HS114-ND	digikey	0.58	1	25	HEATSINK TO-220 DUAL 10W		
HS374-ND	digikey	2.67	1?	1	HEATSINK TO-220 W/PINS BLK 2"		
MC7808CT-BPMS-ND	digikey	0.48		5	IC REG LDO 8V 1.5A TO220		
KA7810ETUFS-ND	digikey	0.65		5	IC REG LDO 10V 1A TO-220		
CONSUMA002	mouser	\$3.03			RF Connectors SMA Female Right Angle PCB Mount		
MA4P7001F-1072	richardsonrpd	\$1.92	2	25	Mount		
				50	RF PIN Diode		
<b>TX Amplifier gating circuit</b>							
BJT 3904 NPN	Digikey		1			TIP32AFS-ND	
BJT TIP32A PNP 3 amp	Digikey		1			2N3904-APT-ND	
1Kohm resistor	Digikey		2		1210 package surface mount	P1.0KVCT-ND	
4.7Kohm resistor	Digikey		1		1210 package surface mount	P4.7KVCT-ND	
<b>Phantoms</b>							
Mouse brains (25 frozen brains)	Fisher scientific	165			STRIPPED MOUSE BRAIN 25/PK NC9800809 No. 550051	NC9800809	
LG-9060-106	Wilmad-Labglass	\$14.12			1.5 mm OD, 1 mm ID capillary tube (package qty 100)		

WG-1365-2.5A	Wilmad-Labglass	\$1.42		20	2.5 mm OD capillary tube (package qty 1)		
WG-1365-2	Wilmad-Labglass	\$1.32		20	2.0 mm OD capillary tube (package qty 1)		
WG-1364-2-203M	Wilmad-Labglass	\$10.03		1	2.0 mm OD capillary tube, sealed at one end (package qty 5)		
12-141-5	Fisher scientific	\$15.38		1	capillary OD 1.5-2mm, L 90 mm, one end sealed		
WG-4000-7	Wilmad-Labglass	\$330.48		1	100 pack of 10mm tubes		
<b>TX Power Amp</b>							
AN779L	Communication Concepts	109		1			
AN779H 28V	Communication Concepts	90		1			
MJE243GOS-ND	digikey	0.57		10	power npn		
ZHL-3A	MiniCircuits	215	1	10	1W, 24dB gain power amp, needs 24V DC power		
2114600 Jameco	Jameco	1.39		25	2.1mm jack power connector with pigtail		
2114597 Jameco	Jameco	1.39		25	2.5mm jack power connector with pigtail		wrong size for 24V power supply for RFPA
174845 Jameco	Jameco	15.95		15	24V 1amp linear regulated power supply.		
ZHL-3A	MiniCircuits	215	1	12	1W, 24dB gain power amp, needs 24V DC power		
<b>TX Power regulator and blanking circuit</b>							
174845 Jameco	Jameco	15.95		10	24V 1amp linear regulated power supply.		
563-CU-5470	mouser	\$3.56		25	bud box		
9600K17	mcmaster	\$3.74		1	push-in grommet pack of 100		
<b>Cabling</b>							
99H4399	Newark	3.16		25	Amphenol connex, bulkhead BNC jack/jack		wrong part; is insulated from case...
25T0736	Newark	\$6.2		25	Amphenol Connecex coax cable assembly, BNC RG58, 6"		not using
25T0737	Newark	6.63		25	Amphenol Connecex coax cable assembly, BNC RG58, 12"		power amp to front feedthrough (transmit)
14R7742	Newark	10.26		25	Amphenol Connecex coax cable assembly, SMA 174, 6"		not using
14R7745	Newark	13.49		25	Amphenol Connecex coax cable assembly, SMA 174, 36"		front feedthrough to medusa (receive)
22H5716	Newark	9.69		25	Emerson coax cable assembly, SMA-BNC RG316, 36"		medusa transmit to power amp (transmit)
23T5171	Newark	7.45		5	USB type A male to USB type B male, 3m,		
81C9214	Newark	8.43		25	Power strip, 6 outlet, 15A, 120V, 4ft		
14R7745	Newark	13.49		25	Amphenol Connecex coax cable assembly, SMA 174, 36"		accidental duplicate (will be canceled) (newark is out available at mouser and digikey manufacturer pn: 135101-02-36.00)
14R7794	Newark	12.43		25	Amphenol Connecex coax cable assembly, SMA 174, 12, SMA bulkhead, SMA		preamp out to front feedthrough (newark is out available at mouser manufacturer pn: 135110-02-12.00)
99H4395	Newark	2.89		25	Amphenol Connex 112437 BNC jack-jack, bulkhead, not-isolated		proper non-isolated
115101-19-24.00	mouser	\$8.09		12	Amphenol BNC St Plug-BNC St Plug RG-58 24 in.		to be cut for preamp/TR board to front feedthrough Tx
135101-02-36.00	mouser	\$13.21		12	Amphenol SMA St Plug to St Plug RG-174/U 24"		to be cut for coil to preamp/TR board
135110-02-12.00	mouser	\$12.43		12	Amphenol SMA St BH JK to St Plug RG-174/U 12"		preamp out to front feedthrough (completes newark order)
6FT#245.5X2.1	jameco	\$1.39		36	2.1mm jack to pigtail		
6FT#245.5X2.5	jameco	\$1.39		25	2.5 mm plug to pigtail		
DCCORD2.5	jameco	\$1.39		25	2.5mm plug to pigtail		
USB type A male to type B male cable	Digikey	3.86		20	USB type A male to USB type B male, 3m,	AE10360-ND	
<b>MEDUSA and DACs</b>							
terminal block board mount 4-pos	Digikey			70	terminal block 4 -position use between GND and +12V on the DAC board	A98078-ND	for DAC boards to use with INA914 clamp diode
clamp diode 1N914	Digikey			75	terminal blocks	1N914BCT-ND	use with terminal block on DAC board
male jumper 2-position	Digikey			100	for MEDUSA reset button at JP12 on backplane	XG8T-0231-ND	for reset button on MEDUSA JP12 on backplane
female socket 2-position	Digikey			26	for reset button	A106649-ND	
fan guard 92 mm	Jameco	0.75		25	to let heat out through the top of the MEDUSA box	SC92-W2	
<b>mini halbach</b>							
ND033	applied magnets	\$0.69		50	shim magnets		
NB001	applied magnets	\$0.85		20	shim magnets		

NB007	applied magnets	\$0.27		50 shim magnets			
<b>Oscilloscope stuff</b>							
CF14JT10MOCT-ND	Digikey	\$0.01624		250 10MOhm resistor			
MEC-10MM	PCH Cables Inc	\$2.9		10 DB9 to DB9, 10'			
	1958659 Jameco	\$0.35		30 18 V voltage regulator			
	23579 Jameco	\$0.29		30 adjustable voltage regulator			
	229738 Jameco	\$3.25		3 usb cable, 10', usb-a male to usb-b male			
INA105KU-ND	digikey	\$8.66		10 IC opamp diff 1 MHZ 8SOIC			
296-13645-1-ND	digikey	\$6.9		INA217, IC OPAMP INSTR 3.4MHZ SGL 8 16SOIC			