

RAL 1PPS board	original 5/20/2008; revised 2011oct07									
number of boards to build	3 for 2011oct20 run									
Description	Vendor	Distributor	Part Number	parts per unit	parts	parts in stock	parts to get	cost per unit	net cost	
1U 12" deep rack mount GrayBox chassis, clear irridite finish	Lansing	<b>Lansing</b>	B1F12-V02C	1	3		3	\$150.00	\$450.00	
vented sides, 4 hold top w/ captive hardware	Enclosures	Enclosures								
1U GrayBox chassis rack mount kit, clear Irridite w/o Handle	Lansing	<b>Lansing</b>	K1RMX-001-A	1	3		3	\$14.36	\$43.08	
	Enclosures	Enclosures								
blank printed circuit board fabrication	RAL (Calvin)	Sunstone	PCB 1053B	1	3	3		\$71.00		price doesn't include NRE
Power Entry Module w/ RFI filter with IEC power connector	Corcom	<b>DigiKey CCM1681</b>	1EGG1-1	1	3	1	2	\$13.84	\$27.68	
VDC PSU: <b>+5@3A</b> , <b>+12V@1.2A</b> and <b>-12V@0.3A</b>	Cosel	Powergate	RMC30A-1N	1	3	3		\$64.00		International Vinput version is : LDC30F-1
Vinput US only: 85-132 VAC 1phase, with cover										price is about \$77
Fuse, 1A SloBlow 5mmx20mm	Littlefuse, Inc.	DigiKey F2419-ND	0218001.HXP	1	3	3		\$1.00		
R/A, PCB mount ,50 ohm, bulkhead, BNC jack	Molex	<b>Mouser 538-73138-5033</b>	73138-5033	16	48	16	35	\$2.32	\$81.20	
4 GHz BNC jack to SMA jack bulkhead mount adapter with 4 hole flange	Fairview Microwave	<b>Fairview Microwave</b>	SM4708	1	3		4	\$39.32	\$157.28	
R/A, PCB mount, 50 ohm, SMA jack .281"	Emerson Net Pow	Digikey J496-ND	142-0701-321	1	3	3		\$12.23		
R/A header, 1x5 pos 0.1" Tin	Molex	Digikey WM4303-ND	22053051	1	3	3		\$0.81		
9V @ 1amp voltage regulator TO220AB	On Semi	Digikey MC7809CTOS-ND	MC7809CT	1	3	3		\$0.70		
Negative 9V @ 1.xamp voltage regulator	Micro Comm	Digikey MC7809CT-BPMS-ND	MC7909CT-BP	1	3	3		\$0.80		
TO-220AB package										
0.8amp LDO 3.3V regulator. SOT-223	Natl Semi	DigiKey LM1117IMP-3.3CT-ND	LM1117IMP-3.3NOPB	1	3	3		\$1.31		
1:22 LVDS FanOut IC, 64pin EPAD-TQFP	Micrel	NuHorizons	SY89826LHY	1	3	3		\$15.61		
16 differential input receiver, 64 pin TSSOP	Texas Inst.	DigiKey 296-2370-5-ND	SN75LVDT386DGG	1	3	3		\$8.14		
300MHz, current feedback amplifier 8pin SOIC	Texas Inst.	<b>DigiKey 296-13502-5</b>	THS3061D	16	48		50	\$7.28	\$363.88	Get 50 of these
dual, CMOS, retriggerable monostable multivibrator	Texas Inst.	<b>DigikKey 296-12780-1-ND</b>	CD74HC123PWR	1	3		10	\$0.35	\$3.50	
differential line driver (630 Mbps), SOT23-5	Texas Inst.	DigiKey 296-6919-1-ND	SN65LVDS1DVBR	1	3	3		\$1.17		
NPN amp SOT-23	Fairchild (or NXP)	DigiKey MMBT3904FSCT-ND	MMBT3904	1	3	3		\$0.10		
Panel mount green LED, 14" leads	Dialight	Mouser 645-559-2201-007	559-2201-007	2	6	6		\$1.00		
0.8pF +/-0.075pF 25V COG Capacitor 0402	Panasonic-ECG	DigiKey PCC2204CT-ND	ECD-GOER809	16	48	48		\$0.15		
47uF 16V 10% 0.6 ohm ESR Tantalum 2917	AVX corporation	DigiKey 478-1723-1-ND	TAJD107K016RNJ	3	9	9		\$0.41		
10uF 25V 10% 0.5 ohm ESR Tantalum 2312	AVX corporation	DigiKey 478-1762-2-ND	TPSC106K025R0500	11	33	33		\$0.25		
1uF 16V X7R 0805 ceramic cap	Kemet	DigiKey 399-1284-1-ND	C0805C105K4RACTU	33	99	99		\$0.05		
4.7 uH, 6.8Amp power inductor	Sumida America	<b>DigiKey 308-1473-1-ND</b>	CDRH127NP-4R7NC	3	9		10	\$2.65	\$26.45	Get 10 of these
							<b>total</b>		<b>1153.07</b>	