



ResonantOne Switched Multiband Antenna Design

After posting details about [A Software-Defined Remote Station Design](#) recently, I received a question about station costs, so went ahead and put together a parts list and cost estimation spreadsheet, which is summarized below. You can download the spreadsheet as a starting point for estimating a station, if that's useful.



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\$2,499.00	Flex 6300 SDR		
\$2,999.95	Elecraft KPA 500-F amplifier, Factory Assembled		
\$0.00	PWR-US Power Cable US for KPA 500		
\$699.95	Elecraft KAT 500-F tuner, Factory Assembled		
\$150.22	Shipping and handling (Elecraft items)		
\$129.00	Easy Rotor Control, assembled		
\$279.00	Yaesu G-450A Rotor		
\$93.95	Yaesu control cable, 125'		
\$169.99	TekPower TP50SW		
\$59.99	Vilros Raspberry Pi, Media Center Kit		
\$0.00	SoftEther VPN		
\$519.55	CyberPower Gaming PC, GUA880		
\$307.00	Samsung UE590 UHD-QHD Monitor U24E590D 23.6-Inch Screen LED-Lit Monitor		
\$133.10	Digital Loggers Web Power Switch		
\$160.96	APC BR1500G Uninterruptible Power Supply		
\$119.98	Ni4L ZS6BKW Antenna		
\$104.99	75 ft Ham / CB Radio Antenna Coax Genuine LMR-400		
\$539.00	Spiderbeam 20-17-15-12-10m HD Antenna		
\$150.00	Spiderbeam assembly service		
\$579.00	Spiderbeam 14.5 meter aluminum mast		
\$45.00	Guy plate set for 14.5 HD mast		
\$39.00	45mm standpipe for Spiderbeam		
\$53.00	Rotor adaptor, 80mm to 50mm (for mounting rotor to bottom of mast)		
\$13.50	Galvanized steel carabiner (60mm long), 9 each		
\$84.36	Spiderbeam shipping		
\$359.50	Kevlar guy lines (200' hank, 10 each, more than required)		
\$113.40	Rohn AS455G Accessory Plate		
\$10.77	5.5' T-posts, 3 each		
\$135.00	LMR-400-PL259-UHF-125, low-loss 50 ohm coax, 0.7 dB loss per 100 ft. (alt. RG-213)		
\$64.95	MFJ-4602 Window Pass-through panel		
\$21.81	PstRotatorAZ software		
\$24.95	Eterlogic Virtual Port Serial Emulator software		
\$10,659.87	Estimated Remote Station Cost		

[Download Remote Station Cost Spreadsheet](#)



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Hope that's useful.