

## SRT Parts List

Prices do not include shipping

Item	Description	Quantity	Manufacturer	Manufacturer Part #	Supplier	Supplier Part #	Cost	Subtotal
<b>Dish and Rotor</b>								
1	Big RAS rotator and controller	1	SPID Elektronik		Alfa Radio		\$2990.00	\$2990.00
2	1.8m solid satellite dish	1	Sadoun	SD180PM	Sadoun	SD180PM	\$300.00	\$300.00
(2)	7.5ft mesh satellite dish	1	KTI	S-7.5	Orbit Communications		\$499.95	\$499.95
[2]	2.4m mesh satellite dish	1	RF Ham Design		RF Ham Design		\$955.00	\$955.00
Option 1: concrete pier mount								
3	2" schedule 40 pipe, 8 ft	1			Metals Depot	T52	\$52.56	\$52.56
4	Concrete mix, 80lb bags	27 (+/-)	Quickrete		Home Depot	169765	\$3.55	\$95.85
Option 2: non penetrating roof mount								
(6)	NPRM-10 roof mount	1	Kaul-Tronics		Skyvision	6012006	\$1549.95	\$1549.95
[6]	NPRM 3.5 mount	1	Orbit Communications		Orbit Communications		\$349.95	\$349.95
7	Concrete blocks	66			Home Depot	619280	\$1.27	\$83.82
<b>Feed and LNA</b>								
<b>Cables, Connectors, Adapters</b>								
8	Adapter, SMA-F to SMA-F*	2	Mini-Circuits	SF-SF50+	Mini-Circuits	SF-SF50+	\$4.95	\$9.90
9	Adapter, SMA-M to SMA-M right angle*	1	Amphenol Connex	132339	Digi-Key	ACX1430-ND	\$8.03	\$8.03
10	Cable, 4" hand flex SMA-M to SMA-M*	1	Mini-Circuits	086-4SM+	Mini-Circuits	086-4SM+	\$8.95	\$17.90
11	Cable, 6" hand flex SMA-M to SMA-M*	1	Mini-Circuits	086-6SM+	Mini-Circuits	086-6SM+	\$8.95	\$8.95
12	Cable, 085 semi-rigid coaxial		Micro-Coax	UT-085	Component Distributors	UT-085/AA50085	\$4.62	\$4.62
13	Connector, SMA-F to solder pin, bulkhead	1	Emerson	142-0701-491	Digi-Key	J998-ND	\$8.06	\$8.06

\* Indicates a part found in another location

<b>Hardware</b>								
14	6061 aluminum sheet 0.09" thick, 5.7"x2.16" custom cut	1	Online Metals	N/A	Online Metals	N/A	\$1.48	\$1.48
15	Cake pan, 7"x3" round	1	Magic Line		Ultimate Baker	LLPRD73	\$6.60	\$6.60
16	Cap screw, 1/4-20x3.25"		McMaster-Carr	92198A556	McMaster-Carr	92198A556	\$4.29/10	\$4.29
17	Lock washer, 6-32	4	McMaster-Carr	92146A540	McMaster-Carr	92146A540	\$1.69/100	\$1.69
18	Machine screw, 6-32x1/2"	2	McMaster-Carr	91772A148	McMaster-Carr	91772A148	\$5.14/100	\$5.14
19	Machine screw, 6-32x1"	4	McMaster-Carr	91772A153	McMaster-Carr	91772A153	\$7.43/100	\$7.43
20	Nut, 6-32*	14	McMaster-Carr	90480A007	McMaster-Carr	90480A007	\$1.16/100	\$1.16
21	Nut, 1/4-20	1	McMaster-Carr	92673A113	McMaster-Carr	92673A113	\$3.95/50	\$3.95
22	O-ring, 7/32" ID	3	McMaster-Carr	9557K461	McMaster-Carr	9557K461	\$6.29/100	\$6.29
23	PC board, unclad, 5"x4.5"	1	Twin Industries	7100-45	Digi-Key	438-1019-ND	\$4.68	\$4.68
24	Sytofoam rod, 2.5"x24"	1			Kit Kraft	302829 (5)	\$44.95	\$44.95
25	Tape, copper foil, 1" wide		3M	1125 TAPE 1"	Mouser	517-1125-1.0	\$30.49	\$30.49
26	Washer, 1/4"	2	McMaster-Carr	92141A029	McMaster-Carr	92141A029	\$3.37/100	\$3.37
27	*Wire, 22 gauge stranded, orange		Jameco	818-3	Jameco	818-3	\$9.95/100ft	\$9.95
<b>Enclosures</b>								
28	Enclosure, aluminum, waterproof, 2.6"x4.7"	1	Hammond Manufacturing	1590WN1F	Newark	41T1393	\$22.26	\$22.26
<b>Modules</b>								
29	Amplifier, ultra-low noise	2	Mini-Circuits	ZX60-1614LN-S	Mini-Circuits	ZX60-1614LN-S	\$149.95	\$299.90
30	Band-pass filter, 1420-1470 MHz*	1	Mini-Circuits	VBF-1445+	Mini-Circuits	VBF-1445+	\$34.95	\$34.95
31	Coaxial bias-tee 10-4200 MHz*	1	Mini-Circuits	ZFBT-4R2G-FT+	Mini-Circuits	ZFBT-4R2G-FT+	\$59.95	\$59.95
<b>PC Interface</b>								
32	Adapter, BNC tee	1	TE Connectivity	413592-2	Digi-Key	A24550-ND	\$6.98	\$6.98
33	A/D Converter, PCI board	1	Measurement Computing	PCI-DAS4020/12	Measurement Computing	PCI-DAS4020/12	\$1429.00	\$1429.00

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34	Backplate and cable assembly w/40-pin IDC-F to 37-pin D-M for CIO boards	1	Measurement Computing	BP40-37	Measurement Computing	BP40-37	\$29.00	\$29.00
35	Termination, BNC, 50Ω	1	Mini-Circuits	BTRM-50+	Mini-Circuits	BTRM-50+	\$8.25	\$8.25
<b>Receiver</b>								
<b>Cables, Connectors, Adapters</b>								
36	Adapter, SMA-F to BNC-M	3	Mini-Circuits	BM-50+	Mini-Circuits	BM-50+	\$3.95	\$11.85
37	Adapter, SMA-F to SMA-F*	2	Mini-Circuits	SF-SF50+	Mini-Circuits	SF-SF50+	\$4.95	\$9.90
38	Adapter, SMA-M to BNC-F	1	Mini-Circuits	SM-BF50+	Mini-Circuits	SM-BF50+	\$3.95	\$3.95
39	Adapter, SMA-M to BNC-M	1	Mini-Circuits	SM-BM50+	Mini-Circuits	SM-BM50+	\$3.95	\$3.95
40	Adapter, SMA-M to SMA-M*	3	Mini-Circuits	SM-SM50+	Mini-Circuits	SM-SM50+	\$5.95	\$17.85
41	Adapter, SMA-M to SMA-M right angle*	2	Amphenol Connex	132339	Digi-Key	ACX1430-ND	\$8.03	\$16.06
42	Cable, 4" hand flex SMA-M to SMA-M*	1	Mini-Circuits	086-4SM+	Mini-Circuits	086-4SM+	\$8.95	\$8.95
43	Cable, 6" hand flex SMA-M to SMA-M*	2	Mini-Circuits	086-6SM+	Mini-Circuits	086-6SM+	\$8.95	\$17.90
44	Cable, 10" hand flex SMA-M to SMA-M	3	Mini-Circuits	086-10SM+	Mini-Circuits	086-10SM+	\$8.95	\$26.85
45	Cable, 24" SMA-M to BNC-M	1	Emerson	415-0037-024	Digi-Key	J4524-ND	\$14.40	\$14.40
46	Power cord, male to leads, 1 m	1	CNC Tech	800-1801-2-SVT0-BL-00100	Digi-Key	1175-1232-ND	\$3.58	\$3.58
<b>Components</b>								
47	Capacitor, 0.0033 μF, ceramic	1	TDK	FK14C0G2A332J	Mouser	810-FK14C0G2A332J	\$0.35	\$0.35
48	Capacitor, 0.1 μF, film	1	Panasonic	ECQ-E1104KFB	Mouser	667-ECQ-E1104KFB	\$0.73	\$0.73
49	Capacitor, 0.22 μF, film	2	Panasonic	ECQ-E4224JF	Mouser	667-ECQ-E4224JF	\$1.35	\$2.70
50	Capacitor, 0.33 μF, film	1	Panasonic	ECQ-E4334KF	Mouser	667-ECQ-E4334KF	\$1.25	\$1.25
51	Capacitor, 1 μF, film		Panasonic	ECW-F2105JA	Mouser	667-ECW-F2105JA	\$0.84	\$0.84
52	Circuit board	1	Vector Electronics	3677-6	Digi-Key	V1021-ND	\$22.04	\$22.04
53	Inductor, 1 mH		Epcos	B82145A1105J	Mouser	871-B82145A1105J	\$1.11	\$1.11

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54	Power splitter/combiner 90°	1	Mini-Circuits	PSCQ-2-8+	Mini-Circuits	PSCQ-2-8+	\$56.45	\$56.45
55	Voltage regulator, 7805 series, 5V	1	National Semiconductor	LM340T-5.0/NOPB	Digi-Key	LM340T-5.0-ND	\$1.66	\$1.66
56	Voltage regulator, 7812 series, 12V	1	National Semiconductor	LM340T-12/NOPB	Digi-Key	LM340T-12-ND	\$1.66	\$1.66
<b>Enclosures</b>								
57	Cover, aluminum, 8"x12"	1	Hammond Manufacturing	1434-22	Digi-Key	HM283-ND	\$10.76	\$10.76
58	Enclosure, aluminum, 8"x12"x2"	1	Hammond Manufacturing	1444-22	Digi-Key	HM267-ND	\$25.14	\$25.14
59	Shield box w/cover, 3 BNC female tee	1	Pomona Electronics	2392	Digi-Key	501-1395-ND	\$70.12	\$70.12
<b>Hardware</b>								
60	6061 aluminum sheet 0.09" thick, 7.5"x11" custom cut	1	Online Metals	N/A	Online Metals	N/A	\$7.42	\$7.42
61	Adhesive feet	4	3M	SJ-5518 (BLACK)	Digi-Key	SJ5518-0-ND	\$0.10/64	\$6.48
62	Heat-shrink tubing, 1.5mm		McMaster-Carr	7496K416	McMaster-Carr	7496K416	\$6.73/10	\$6.73
63	Heat-shrink tubing, 3.4mm		McMaster-Carr	7856K633	McMaster-Carr	7856K633	\$7.97/10	\$7.97
64	Machine screw, 2-56x1/4"	2	McMaster-Carr	91792A077	McMaster-Carr	91792A077	\$4.16/100	\$4.16
65	Machine screw, 2-56x3/8"	4	McMaster-Carr	91792A079	McMaster-Carr	91792A079	\$4.33/100	\$4.33
66	Machine screw, 4-40x1/4"	4	McMaster-Carr	91792A106	McMaster-Carr	91792A106	\$4.42/100	\$4.42
67	Machine screw, 4-40x3/8"	4	McMaster-Carr	91792A108	McMaster-Carr	91792A108	\$5.08/100	\$5.08
68	Machine screw, 4-40x3/4"	4	McMaster-Carr	91792A113	McMaster-Carr	91792A113	\$6.33/100	\$6.33
69	Machine screw, 5-40x1"	6	McMaster-Carr	91792A133	McMaster-Carr	91792A133	\$11.37/100	\$11.37
70	Machine screw, 6-32x1/4"	2	McMaster-Carr	93923A372	McMaster-Carr	93923A372	\$9.83/100	\$9.83
71	Machine screw, M3x6	2	McMaster-Carr	91200A112	McMaster-Carr	91200A112	\$6.21/100	\$6.21
72	Nut, 2-56	10	McMaster-Carr	90480A003	McMaster-Carr	90480A003	\$1.04/100	\$1.04
73	Nut, 4-40	12	McMaster-Carr	90480A005	McMaster-Carr	90480A005	\$0.81/100	\$0.81
74	Nut, 5-40	6	McMaster-Carr	90480A006	McMaster-Carr	90480A006	\$1.59/100	\$1.59
75	Nut, 6-32*	2	McMaster-Carr	90480A007	McMaster-Carr	90480A007	\$1.16/100	\$1.16
76	Ring terminal, #4 red	5	TE Connectivity	2-320553-2	Digi-Key	A27227CT-ND	\$0.34	\$1.70

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77	Sheet metal screw, #6x14"	4	McMaster-Carr	90053A144	McMaster-Carr	90053A144	\$3.06/100	\$3.06
78	Solder lug, #6 angled	2	Keystone Electronics	7318	Digi-Key	7318K-ND	\$0.18	\$0.36
79	Standoff, M/F 4-40 0.5"	8	Keystone Electronics	1944	Digi-Key	1944K-ND	\$0.88	\$7.04
80	Washer, 4-40	8	McMaster-Carr	90126A505	McMaster-Carr	90126A505	\$1.09/100	\$1.09
81	Washer, 5-40	6	McMaster-Carr	90126A507	McMaster-Carr	90126A507	\$1.39/100	\$1.39
82	Wire, 22 gauge stranded, black		Jameco	818-0	Jameco	818-0	\$9.95/100 ft	\$9.95
83	*Wire, 22 gauge stranded, orange		Jameco	818-3	Jameco	818-3	\$9.95/100 ft	\$9.95
84	Wire, 22 gauge stranded, red		Jameco	818-2	Jameco	818-2	\$9.95/100 ft	\$9.95
85	Wire, 22 gauge stranded, yellow		Jameco	818-4	Jameco	818-4	\$9.95/100ft	\$9.95
<b>Modules</b>								
86	Amplifier, low noise	1	Mini-Circuits	ZX60-33-LN-S+	Mini-Circuits	ZX60-33-LN-S+	\$79.95	\$79.95
87	Amplifier, SMA connectors	2	Mini-Circuits	ZFL-500LN+	Mini-Circuits	ZFL-500LN+	\$79.95	\$159.90
88	Band-pass filter, 1420-1470 MHz*	1	Mini-Circuits	VBF-1445+	Mini-Circuits	VBF-1445+	\$34.95	\$34.95
89	Coaxial bias-tee 10-4200 MHz*	1	Mini-Circuits	ZFBT-4R2G-FT+	Mini-Circuits	ZFBT-4R2G-FT+	\$59.95	\$59.95
90	Frequency mixer	2	Mini-Circuits	ZX05-C42LH+	Mini-Circuits	ZX05-C42LH+	\$38.95	\$77.90
91	Frequency source, 1416 MHz	1	Luff Research	PLVCO-1416-INT	Luff Research	PLVCO-1416-INT	\$729.00	\$729.00
92	Low pass filter	1	Mini-Circuits	SLP-10.7+	Mini-Circuits	SLP-10.7+	\$34.95	\$34.95
93	Low pass filter	1	Mini-Circuits	BLP-7-75+	Mini-Circuits	BLP-7-75+	\$33.95	\$33.95
94	Power splitter/combiner 90°	1	Mini-Circuits	ZX10Q-2-19	Mini-Circuits	ZX10Q-2-19	\$29.95	\$29.95
95	Power splitter/combiner	1	Mini-Circuits	ZX10-2-252+	Mini-Circuits	ZX10-2-252+	\$31.95	\$31.95
96	Power Supply, AC/DC, 15V, 1A	1	Mean Well	RS-15-15	Jameco	1919060	\$16.95	\$16.95
97	Termination, SMA 50Ω	1	Mini-Circuits	ANNE-50L+	Mini-Circuits	ANNE-50L+	\$6.95	\$6.95
<b>Total, without pier or dish:</b>								<b>\$6,835.00</b>
Solid dish								\$300.00
Mesh dish 1								\$499.95
Mesh dish 2								\$955.00
Pier mount								\$148.41
Roof mount 1								\$1633.77
Roof mount 2								\$433.77

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