

Ham 91C – ASV Radio: Parts List
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1. Parts list for common computer components of all AllStar Voip nodes.

Component	Vendor model	\$	
Raspberry Pi Mod 3 makes less heat	Amazon Scalpers model 2,3,4 (recommend 3)	\$65	
Power supply 5.1 V, 2.5A for #3, 3.0A for #4	Amazon	\$8	
microSD card, 8 - 32 GB, Class 10 or better. Avoid 64 GB or >.	SanDisk extreme Amazon, WalMart	\$10	
AllStarLink OS, download	AllStarLink.org or Elmer	---	
USB radio adapter	MastersCommunications.com RL-20	\$25 kit \$55 made	
USB-A to USB-B cable	supplied w/ adapter	---	
Case	Brett KI5TAX makes custom cases	\$	
Ethernet & Wi-Fi built in			

2. Parts list for **Local / RF-less Link** digital radio node, suitable for direct digital connection to a repeater / link.

Component	Vendor model	\$	
Ethernet extension cable RJ45-RJ12 female connect	Amazon. Depends on mic. Alinco type does not need .	\$7	
Mic 5V DTMF shielded Alinco EMS-57 Knockoff (not shielded)	DXEngr or HRO Amazon, et al	\$70 \$25	
3.5mm (1/8") female jack to bare wire, TRS, stereo	Amazon	\$3	
Computer powered speaker with 3.5mm TRS male plug. Similar to Logitech S120 or Cyber Acoustics CA-2014		\$13	
DB9 (D-sub) male breakout connector		\$8	

3. Parts list for **Simplex Link**, suitable for wireless RF to a node, then digital to a repeater or link.

Component	Vendor model	\$	
Baofeng UV-xx Radio, 8W	Amazon	\$25	
Baofeng mic plug	Amazon (cut from mic)	\$8	
FET 2N7000 transistor	Amazon	\$0.55	
Resistor 4.7KΩ, 1/8W		\$0.06	
DB9 (D-sub) male breakout connector	A	\$8	

4. Changing the cable & end device reconfigures the AllStar node to simplex link or local digital-radio link.

5. Life is good. Enjoy!

