

Ham 304 - As3 maker parts

Dr. Marc & Rosemary Durham, Theway Labs, Bixby, OK © 250107

Parts list for common computer components of all AllStarLink 3, voice-over-ip (Voip) nodes.

Component	Vendor model	\$
Raspberry Pi Mod 3B makes less heat	Amazon Scalpers model 2 – 5 (recommend 3B)	\$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 \$55made
USB-A to USB-B cable	supplied w/ adapter	---
Case	make custom cases	\$
Ethernet & Wi-Fi built in		



Parts list additional 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	DXEngr or HRO Amazon, et al	\$70
Knockoff (not shielded)		\$25
3.5mm (1/8") female jack to bare wire, TRS, stereo	Amazon	\$3
Computer powered speaker, 3.5mm TRS male plug. Similar to Logitech S120 or Cyber Acoustics CA-2014		\$13
DB9 (D-sub) male breakout connector		\$8



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

Component	Vendor model	\$
Baofeng UV-xx Radio	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	Amazon	\$8



Life is good. Enjoy!

