

Hardware

LCD Display	waveshare 5inch Capacitive IPS Touch Display	\$43.99	https://www.amazon.com/gp/product/B09XMRHHV3
Raspberry Pi	Raspberry Pi 4 Computer Model B 8GB	\$76.99	https://www.amazon.com/gp/product/B0899VXM8F
Heatsink for RPI	Raspberry Pi 4 Heatsink Kit	\$3.99	https://www.amazon.com/gp/product/B079FV2RH3
microSD card for PI	SanDisk 64GB Extreme microSDXC	\$9.98	https://www.amazon.com/dp/B09X7C7LL1
PI display extension cables	Raspberry Pi Camera Cable, 6pack 15 Pin	\$7.99	https://www.amazon.com/gp/product/B089LM5D1T
Geekworm X710	Raspberry Pi X710 Power Management	\$22.99	Discontinued
Proto board			
Rotary encoders	5Pcs KY-040 Rotary Encoder Module	\$9.99	https://www.amazon.com/gp/product/B07F26CT6B
Carlinkit (for Carplay)	CarlinKit Wireless CarPlay USB Adapter	\$55.99	https://www.amazon.com/gp/product/B09ZQF9YS4
Soundblaster	Creative Labs Sound Blaster Play! 3	\$17.83	https://www.amazon.com/gp/product/B06XBZ38ZJ
Microphone			
USB ports	Dual Ports Square USB 3.0 Panel Ext Cable	\$9.60	https://www.amazon.com/gp/product/B0BDWVFZKH
Bluetooth	Panda Bluetooth 4.0 USB Nano Adapter	\$17.99	https://www.amazon.com/gp/product/B00BCU4TZE
JST wiring connectors	JST PH Connector kit 2.0mm	\$9.99	https://www.amazon.com/dp/B0BHT1FQGY
	JST-XH Connector Kit 2.54mm	\$9.99	https://www.amazon.com/dp/B09ZTWCZ3K
3.3v regulator	3.3V 250mA Linear Voltage Regulator - L4931-3.3 TO-92	\$1.50	https://www.adafruit.com/product/2166
MOSFETs			
RCA connectors	RCA Female Socket Connectors	\$8.99	https://www.amazon.com/gp/product/B08ZLQHGNS
Ai-NET ext cable	CD Change Cable - JVC Alpine	\$17.99	https://www.amazon.com/gp/product/B07FM659KB
Audio relay	DPDT Signal Relay Module, 12Vdc	\$12.99	https://www.amazon.com/gp/product/B00LWX9PPA
Proto board	Twin Industries PROTOBOARD RASPBERRYPI 113X69MM	\$7.99	https://www.digikey.com/en/products/detail/twin-industries/3-14-2/5214232
Harness connectors	TE Connectivity HEADER 12POS 2.5MM 175974-2	\$2.95	https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/175974-2/302651
	TE Connectivity HEADER 16POS 2.5MM 175615-2 Qty 2	\$5.14	https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/175615-2/2330975
	TE Connectivity CONN PLUG HSG 16POS 2.50MM 175966-2 Qty 2	\$2.92	https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/175966-2/857862
	TE Connectivity CONN SOCKET 20-22AWG CRIMP TIN 173681-1 Qty	\$3.49	https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/173681-1/2187795
	TE Connectivity CONN HEADER R/A 36POS 2.5MM 179059-6	\$6.44	https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/179059-6/2331040
3D printed parts	Polymaker ASA Filament 1.75mm Black	\$29.99	https://www.amazon.com/dp/B09DKPYYPB
misc wire			
misc fasteners			

Software

OpenAuto Pro Software	OpenAuto Pro – Car Head Unit Solution	\$31.00	https://bluewavestudio.io/shop/openauto-pro-car-head-unit-solution/
AutoBox Software	Plugin CarPlay Autobox for OpenAuto Pro	\$12.00	https://bluewavestudio.io/shop/plugin-carplay-autobox-for-openauto-pro/

Optional

Backup camera	DoHonest Backup Camera Adjustable Angle		https://www.amazon.com/gp/product/B0B6B9L29G
USB Video capture	UCEC USB 2.0 Video Capture Card Device		https://www.amazon.com/gp/product/B07PS2TD9L
Powered USB Hub	Anker 7-Port USB 3.0 Data Hub		https://www.amazon.com/gp/product/B014ZQ07NE
ADC board	ADS1115 16-Bit ADC - 4 Channel	\$14.95	https://www.adafruit.com/product/1085
RTC board	Adafruit DS3231 Precision RTC Breakout	\$17.50	https://www.adafruit.com/product/3013
AUX socket connector	3.5MM Audio Video Jack	\$7.39	https://www.amazon.com/gp/product/B07MN1RK7F

total

\$440.70