DEVELOPMENT

OPEN SYSTEMS:

- https://pine64.org/
- https://starlabs.systems/

RASPBERRY PI / OTHER CC (CR-80) BOARDS:

- https://www.raspberrypi.com/
- http://www.orangepi.org/
- https://libre.computer/
- https://www.hardkernel.com/
- https://www.canakit.com/
- https://mygeeekpi.com/
- https://www.loverpi.com/
- https://github.com/oleg4apk/Tanix-TX6 [Tanix-TX6/Pendoo X6 PRO]

SOFTWARE:

- https://www.raspberrypi.com/software/
- https://www.armbian.com/
- https://libreelec.tv/
- https://www.openmediavault.org/
- https://www.home-assistant.io/
- https://www.openhab.org/

ARDUINO:

- https://www.arduino.cc/en/hardware

ESP32:

- https://www.amazon.com/s?k=esp32
- https://www.amazon.com/s?k=heltec+esp32
- https://www.amazon.com/stores/page/7228D50C-C54F-441C-B3BD-B585372FE2B1
- https://www.amazon.com/stores/Meshnology/page/2FCC0FE0-D762-44B7-8ABA-520D55EF306F
- https://heltec.org/product-category/lora/meshtastic/
- https://meshnology.com/
- https://github.com/HelTecAutomation/Heltec_ESP32
- https://huhn.me/
- https://meshtastic.org/
- https://flasher.meshtastic.org/
- https://map.meshtastic.org/
- https://meshtastic.liamcottle.net

BEETLE USB / ARDUINO MICRO [ATMEGA32U4]:

- https://www.amazon.com/HiLetgo-Microcontroller-ATMEGA32U4-Development-Keyboard/dp/B07W5K9YHP
- https://www.amazon.com/s?k=hiletgo+beetle+usb+atmega32u4 [FALLBACK LINK]

SOFTWARE / IDE FOR ESP32 + ATMEGA32U4 [BEETLE USB / ARDUINO MICRO]:

- https://github.com/arduino/arduino-ide
- https://www.arduino.cc/en/software

SIM800C:

- https://www.simcom.com/product/SIM800C.html
- https://www.amazon.com/s?k=sim800c
- https://github.com/smdthiranjaya/SIM800C-module
- https://files.waveshare.com/upload/2/26/SIM800_Series_AT_Command_Manual_V1.11.pdf

DEBUG:

INFO:

- https://www.espboards.dev/blog/esp32-usb-to-uart/
- https://www.iotrouter.com/what-is-the-difference-between-ft232-ch340-cp2102-and-ch341/
- https://www.rei-labs.net/usb-to-serial-ttlrs232-converter-comparison/
- https://www.xinshop.com/components-parts/ch340-vs-cp2102-vs-ch341-vs-ft232-differences
- https://wiki.freebsd.org/USB/Peripherals/Serial
- https://swisskyrepo.github.io/HardwareAllTheThings/debug-interfaces/uart/
- https://github.com/swisskyrepo/HardwareAllTheThings/blob/main/docs/debug-interfaces/uart.md
- https://zeptobars.com/en/read/FTDI-FT232RL-real-vs-fake-supereal [!]
- https://wiki.dd-wrt.com/wiki/index.php/Serial_Recovery

PINOUTS:

- https://pinoutguide.com/
- https://www.hardwarebook.info/
- https://allpinouts.org/
- https://pinout.ai/
- https://wiki.dd-wrt.com/wiki/index.php/Serial_port_pinouts
- https://wiki.postmarketos.org/wiki/Serial_debugging/Cable_schematics
- https://pinout.xyz/pinout/uart
- https://wiki.t-firefly.com/ROC-RK3328-CC/debug.html
- https://www.deshide.com/
- https://www.waveshare.com/

UART:

FT232:

- https://www.amazon.com/s?k=FT232
- https://www.amazon.com/DSD-TECH-Adapter-FT232RL-Compatible/dp/B07BBPX8B8
- https://www.amazon.com/Waveshare-Industrial-USB-TTL-Protection/dp/B087RJ7X32

FT2232/FT4232:

- FT2232 is a dual UART channel FT232
- FT4232 is a quad UART channel FT232
- https://www.amazon.com/s?k=ft2232
- https://www.amazon.com/s?k=ft4232

CH340[3(G)]:

- https://www.amazon.com/s?k=CH340
- https://www.amazon.com/s?k=CH343
- https://www.amazon.com/LoveRPi-UART-Serial-Cable-Debugging/dp/B07DP7SPNH
- https://www.loverpi.com/products/loverpi-usb-uart-serial-debug-cable-for-libre-computer-raspberry-pi-and-3-3v-systems

CP210[2/4/9]:

- https://www.amazon.com/s?k=cp210
- https://www.amazon.com/s?k=cp2102
- https://www.amazon.com/s?k=cp2104
- https://www.amazon.com/s?k=cp2109

PL2303:

- https://www.amazon.com/s?k=pl2303

SOFTWARE:

- https://salsa.debian.org/minicom-team/minicom
- https://www.gnu.org/software/screen/
- https://github.com/tio/tio
- https://www.putty.org/
- https://www.chiark.greenend.org.uk/~sgtatham/putty/
- https://github.com/wvdakker/gtkterm
- https://linux.die.net/man/1/gtkterm
- https://gitlab.com/cutecom/cutecom
- https://cutecom.sourceforge.net/
- https://www.9bis.net/kitty/
- https://github.com/geo-tp/ESP32-Bus-Pirate

SPI / BIOS:

CH341[A]:

- https://www.amazon.com/s?k=CH341
- https://www.amazon.com/s?k=CH341A

SOFTWARE:

- https://github.com/bigbigmdm/IMSProg
- https://github.com/flashrom/flashrom
- https://antenna-dvb-t2.ru/IMSProg.php [RUSSIAN]
- https://www.flashrom.org/
- https://github.com/LongSoft/UEFITool

CAD SOFTWARE:

- https://www.freecad.org/
- https://www.kicad.org/
- https://chili3d.com/

MISC:

- https://heltec.org/
- https://www.deshide.com/
- https://www.waveshare.com/
- https://itead.cc/
- https://sonoff.tech/
- https://jlcpcb.com/
- https://www.thingiverse.com/
- https://energyusecalculator.com/watts_volts_amps_ohms.htm
- https://github.com/issamsam/Aethershell
- https://github.com/sigoden/aichat
- https://hub.libre.computer/t/gpio-pinout-header-maps-and-wiring-tool-for-libre-computer-boards/
- https://hub.libre.computer/t/control-servo-motor-with-gpio-pins-and-pwm/
- > https://hub.libre.computer/t/how-to-enable-and-control-pwm-on-aml-s905x-cc/
- > https://hub.libre.computer/t/how-to-enable-and-control-pwm-on-libre-computer-roc-rk3328-cc/