**Host machine: Ubuntu 18.04**

Clone git repo:

git clone<https://github.com/renesas-rz/rza_linux-4.19_bsp.git>

cd rza\_linux-4.19\_bsp

Pull u-boot and kernel sources:

./build.sh update u

./build.sh update k

Issue config command and setup Stream it board:

./build.sh config

Get buildroot for root file system(rootfs):

./build.sh buildroot

Build u-boot:

./build.sh u-boot

Build Kernel and Device tree:

./build.sh kernel xipImage

./build.sh kernel dtbs

**Board Mod:**

Remove resistor R1 located on the top of the board.

Download Jlink from <https://www.segger.com/downloads/jlink/>

Install JLink as sudo

Install cutecom as sudo: sudo apt-get install cutecom\

Connect USB cables to stream-it board and Jlink pod.

Launch Cutecom: cutecom &

Select port ‘/dev/ttyACM0’, baud 115200.

Download u-boot directly to serial flash

sudo ./build.sh jlink u-boot

Download device tree directly to serial flash

sudo ./build.sh jlink dtb

Download kernel to RAM

sudo ./build.sh jlink xipImage

Flash downloaded kernel to flash by issuing below command in cutecom console

sf probe 0 ; sf erase 200000 500000 ; sf write 0c000000 200000 500000

Download rootfs to RAM

sudo ./build.sh jlink rootfs\_axfs

Flash downloaded rootfs to flash by issuing below command in cutecom console

sf probe 0 ; sf erase 00800000 C00000 ; sf write 0x0C000000 00800000 C00000

Issue below command to boot the kernel

run xsa\_boot

You should be seeing login console. Login creds: root