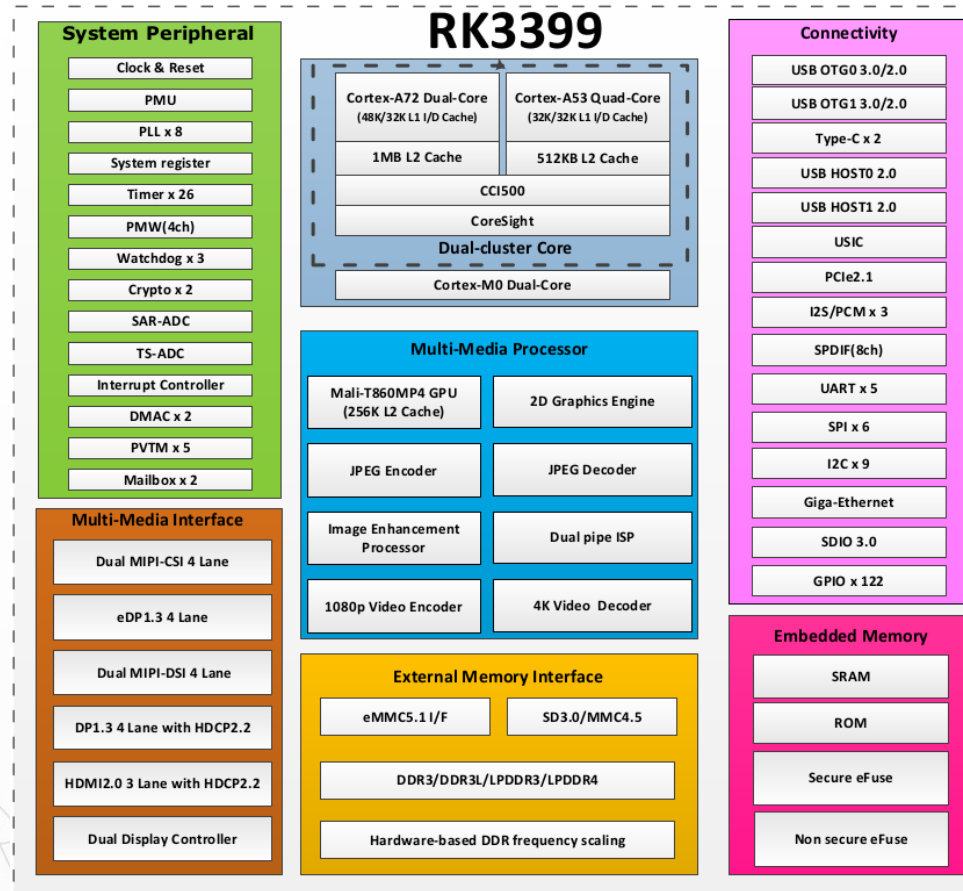


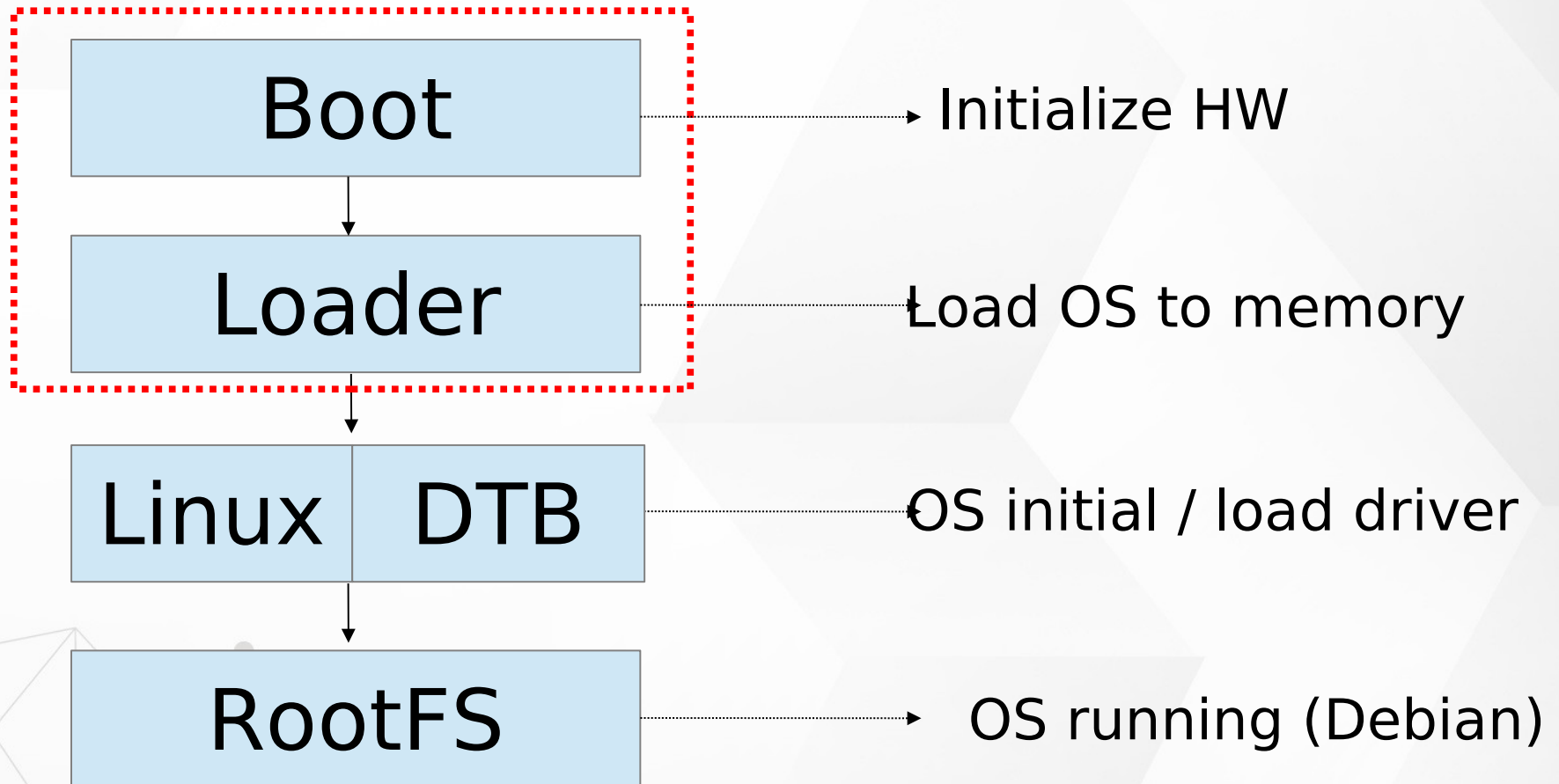
Embedded Linux Arch

SOC RK3399

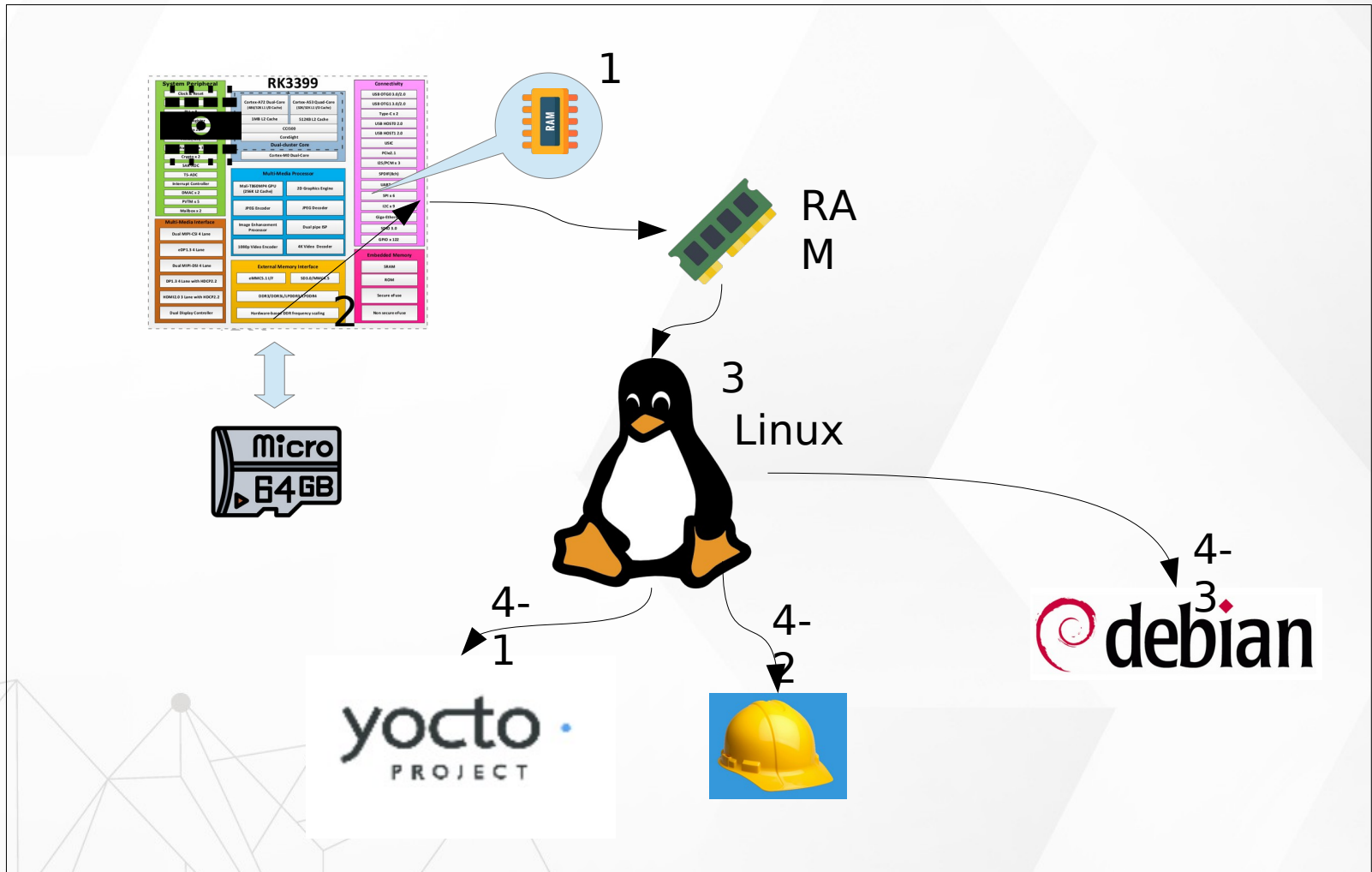


http://wiki.friendlyarm.com/wiki/index.php/NanoPi_M4#Diagram.2C_Layout_and_Dimension

Embedded Linux System Booting



System Start Up



Boot

- ▶ Power On BootROM code (work in cache)
 - Load BL1
- ▶ BL1 (work in cache - IDB_Loader)
 - Initial simple exception vectors, PLL (clock)
 - Initial Multi-CPU
 - Load BL2
- ▶ BL2 (work in cache)
 - Initial DDR memory
 - Initial C environment (stack, heap,)
 - Load BL31

Boot

➤ BL31 (work in DDR)

- Initial exception vectors
- Load BL32 (u-boot)

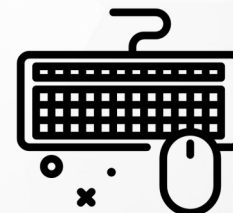
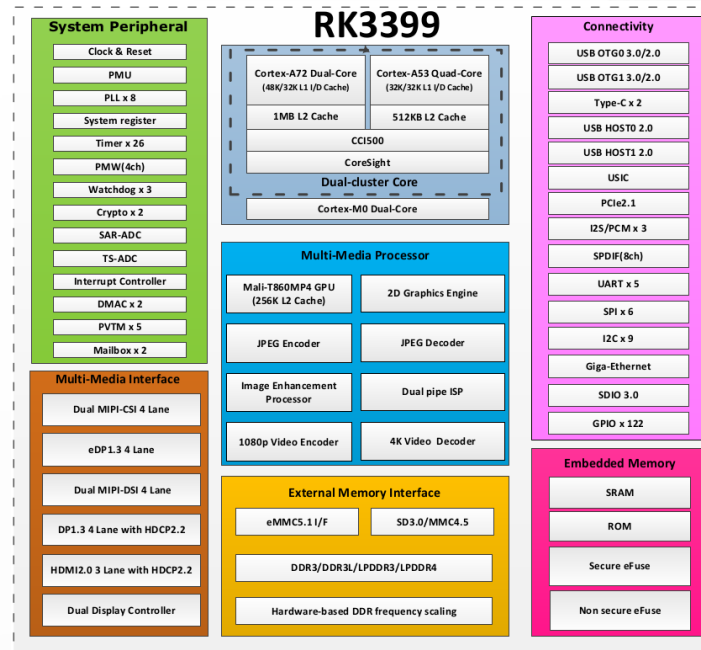
➤ BL32 U-boot

- Initial storage device
- Load Linux Kernel

➤ Kernel

- kernel/Documentation/arm64/booting.txt
- Load RootFS

Embedded Linux System



Embedded Linux System

User land

Video Play

Read Image

Reocrd Image

Tool

C Library

Qt

OpenCV

GLib

Kernel

Virtual File System (VFS)

Linux System Call

Linux Device Driver

Hardware

Disk

Image Sensor

Keyboard

mouse

Panel