Case Study

Android Upgrade

Project Details

- Upgrade of Android version (Kitkat to Nougat) on i.MX6 development board
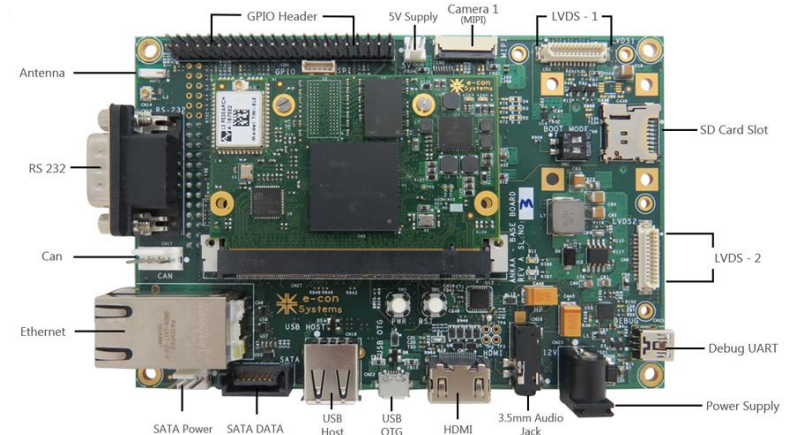- Bootloader changes, kernel cross compiling and bring up

Design Scope

- U-Boot changes related to UART, SD card and other components to enable booting
- Linux kernel changes camera, display with touchscreen, ethernet and other drivers
- Creating a QT based application for video use case realization.
- Running a sample live video playback to validate porting

Expertise/Tools

- Uboot and Linux kernel
- Android OS and frameworks

Highlights

- Base Platform: E-Con systems i.MX6 Quad SoM module which supports Android Kit Kat.
- Changes to IOMUX (GPIO) and Device Configuration Data (DCD) related to SD/eMMC card in U-Boot
- Changes to I2C and PWM for touchscreen display control and backlight

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THANK YOU

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