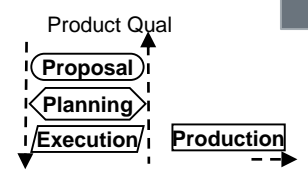
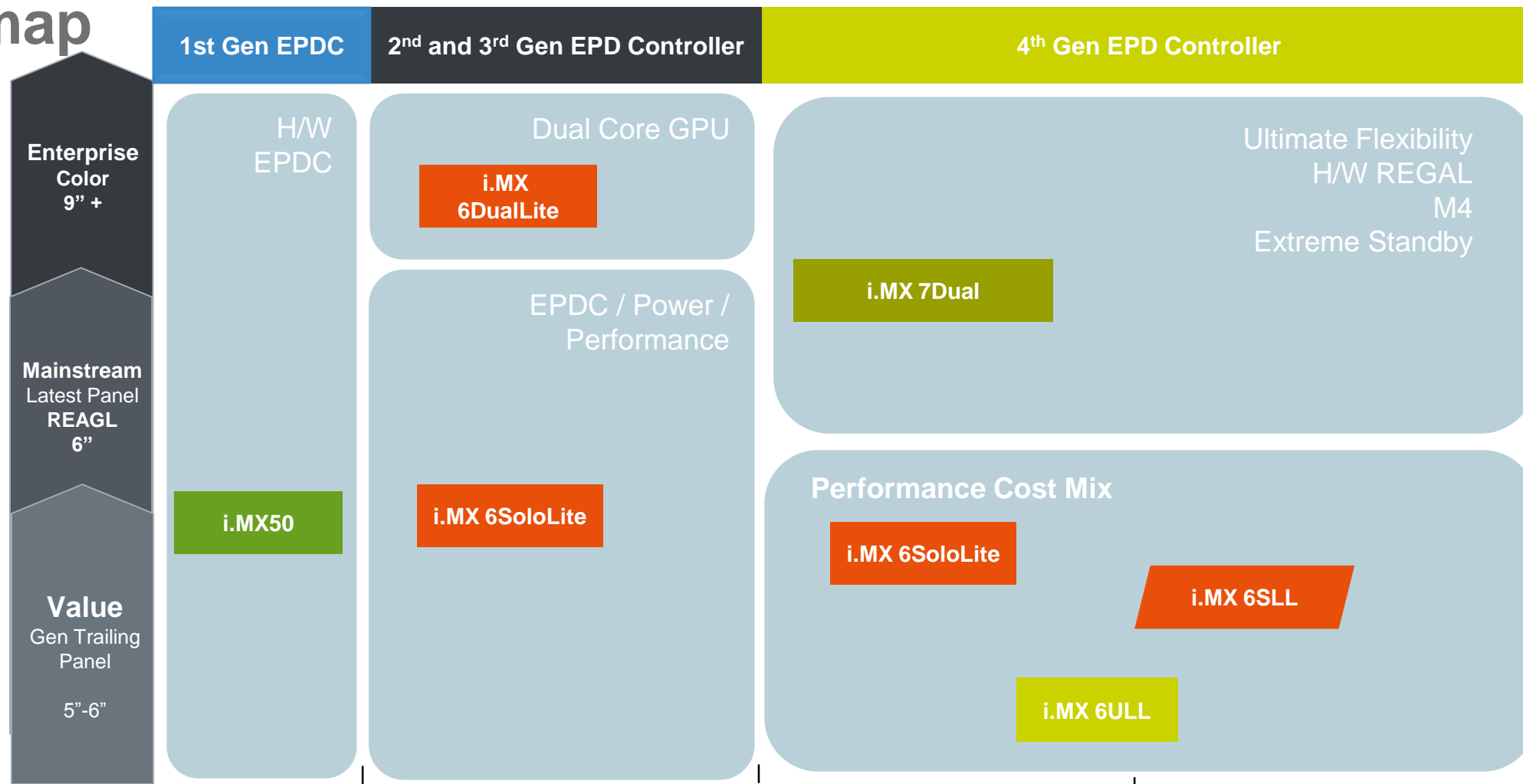




i.MX Applications Solutions

i.MX Applications Processor eReader Roadmap



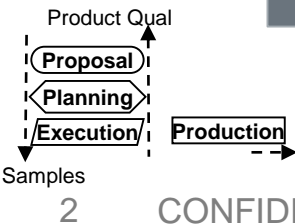
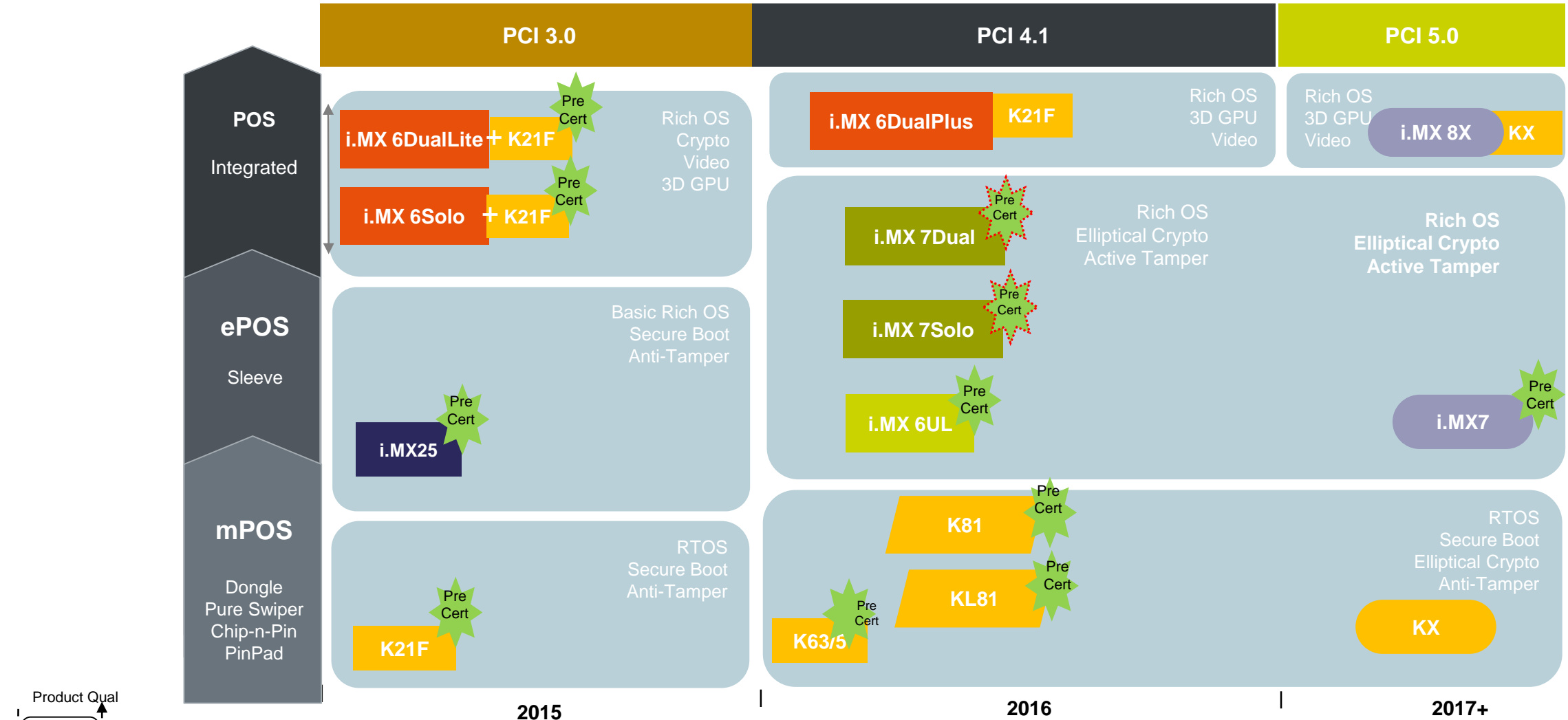
- Cortex-A9
- Cortex-A7
- Cortex-A53+M4
- Cortex-A9+M4
- Cortex-A7+M4
- Cortex-A35+M4

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i.MX Applications Processor **POS** Roadmap



Pending

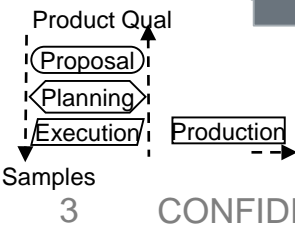
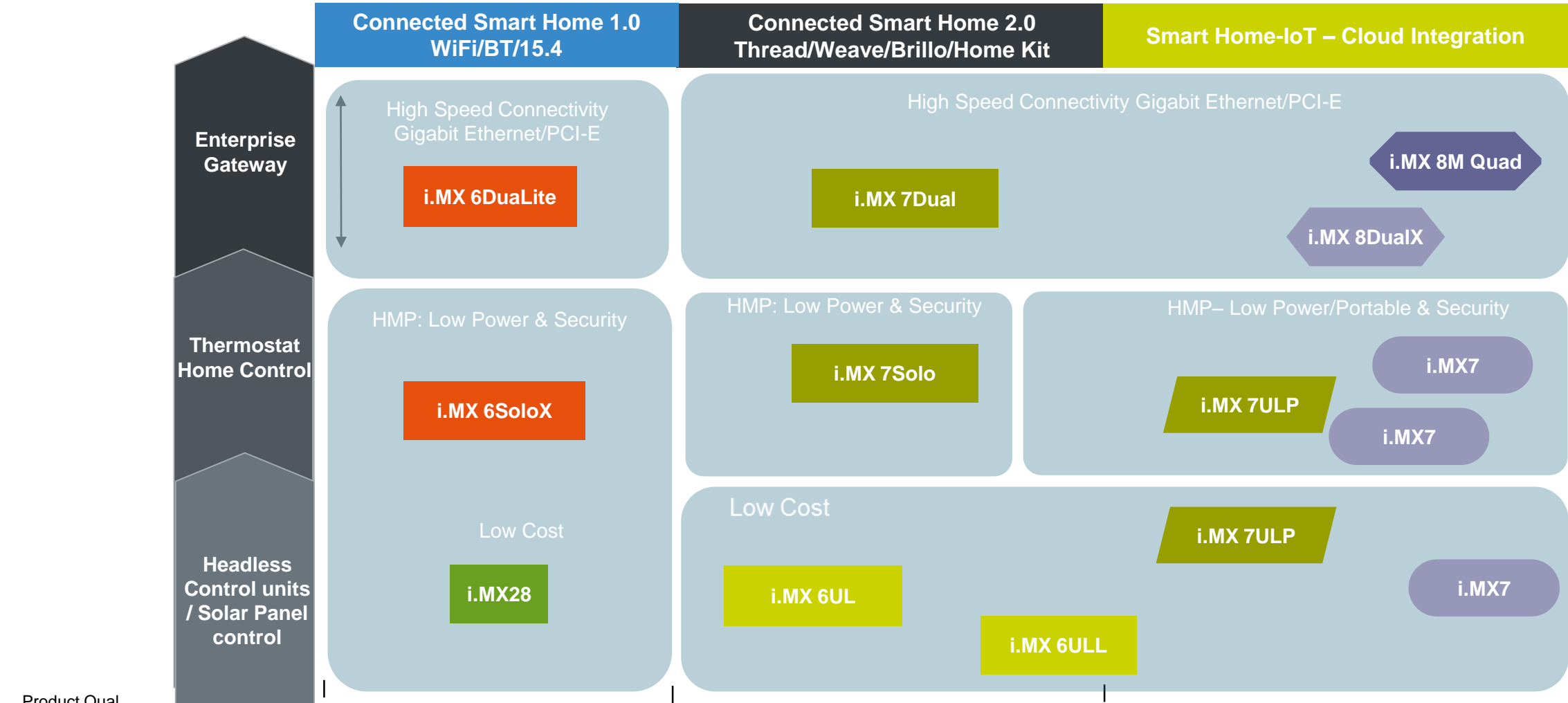
- Cortex-A9
- Cortex-A7
- Cortex-A53+M4
- Cortex-A9+M4
- Cortex-A7+M4
- Cortex-A35+M4

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i.MX Applications Processor **Smart Home** Roadmap



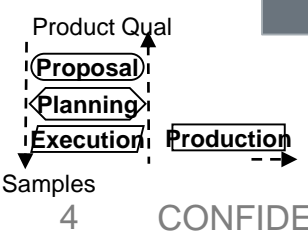
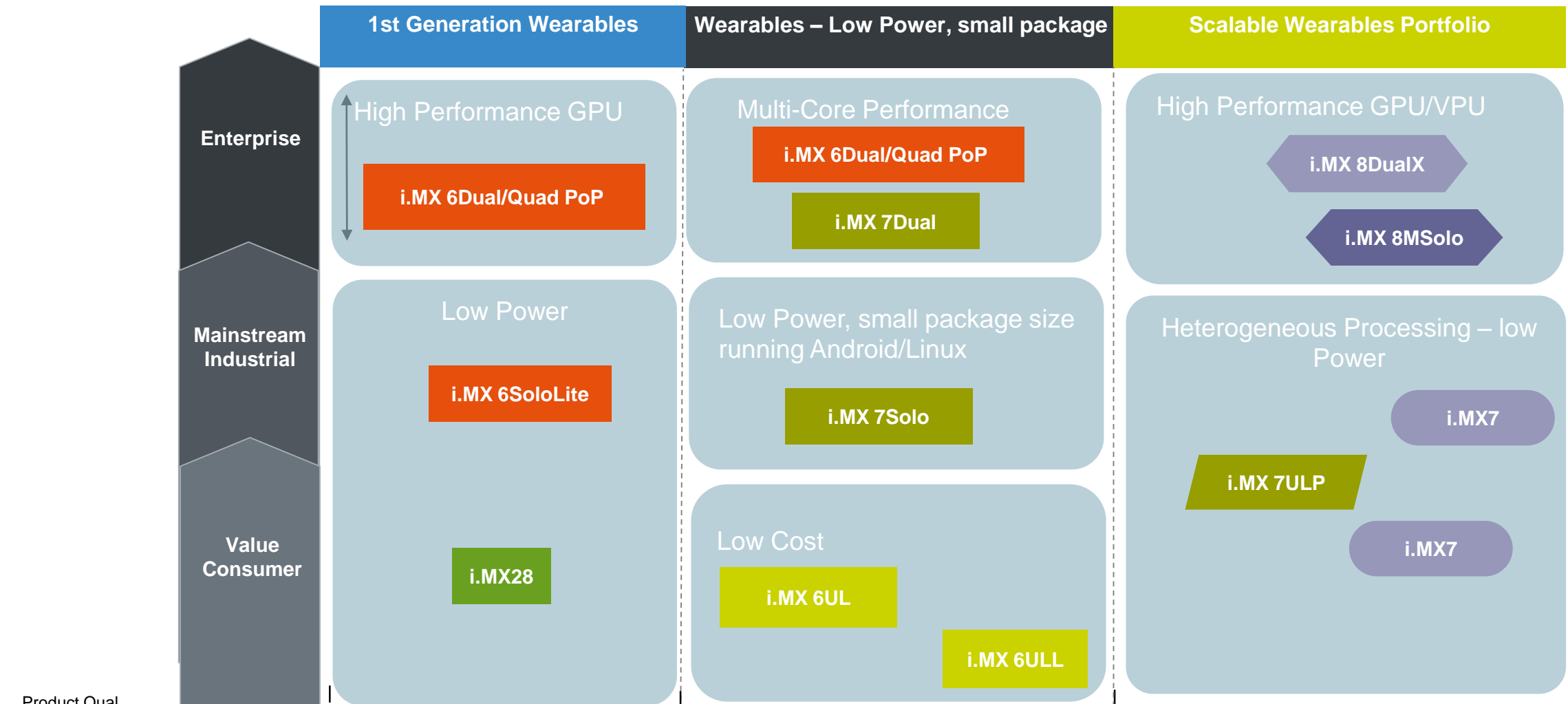
- Cortex-A9
- Cortex-A7
- Cortex-A53+M4
- Cortex-A9+M4
- Cortex-A7+M4
- Cortex-A35+M4

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i.MX Applications Processor **Wearables & Battery Operated** Roadmap



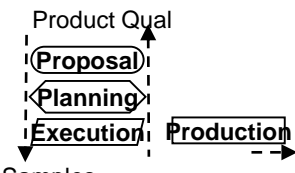
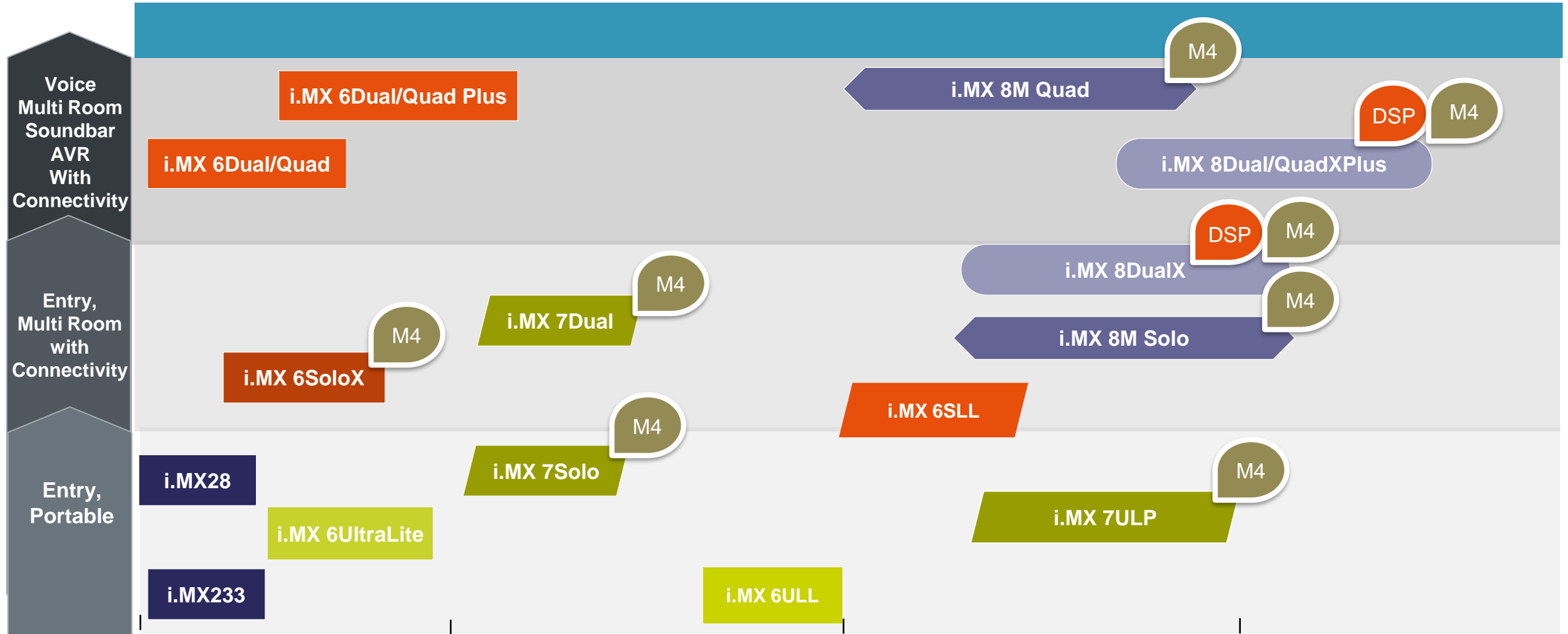
- Cortex-A9
- Cortex-A9+M4
- Cortex-A7
- Cortex-A7+M4
- Cortex-A53+M4
- Cortex-A35+M4

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i.MX Applications Processor Home/Network Audio Roadmap



Production Available

2016

2017

- Cortex-A9
- Cortex-A7
- Cortex-A53+M4
- Cortex-A9+M4
- Cortex-A7+M4
- Cortex-A35+M4

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I.MX SOLUTIONS





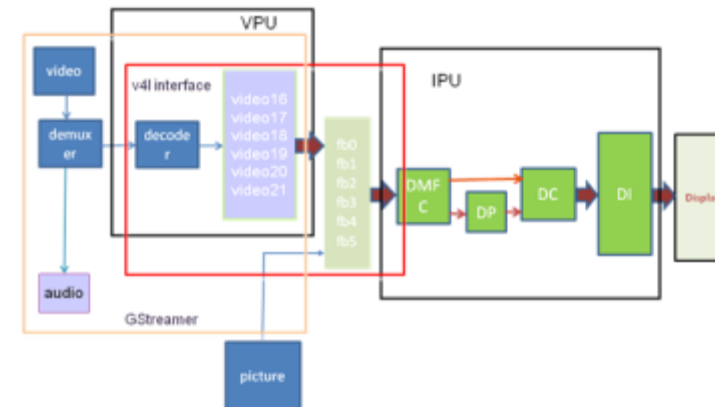
Linux Multiple Display

- NXP Multi display solution is to put different images/video on four display devices at the same time.
 - 1x 1080p HDMI
 - 2x 720p LVDS
 - 1x WVGA LCD

Target on Linux 3.10.17
i.MX6Q SABRESD Board



Block Diagram of the IPU DI Port for Multiple Display



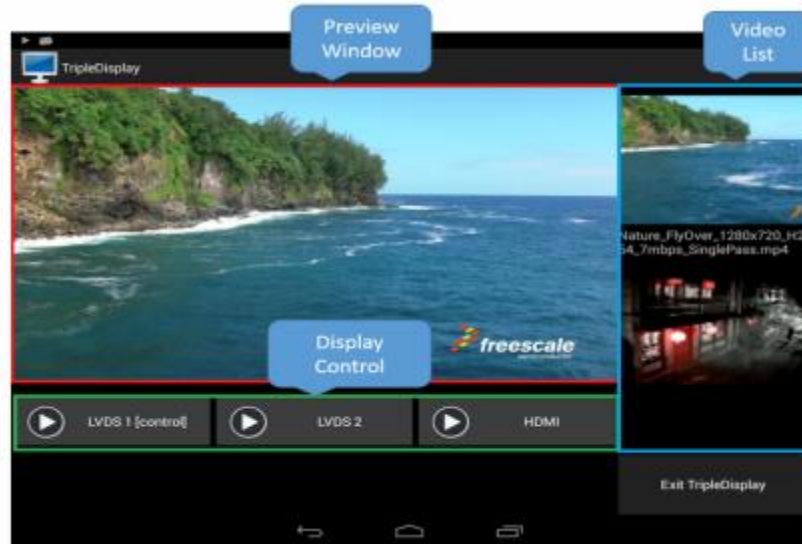
Data Flow for Frame Buffer





Android Triple-Display

- The user can play different video by clicking control button for specifying the target device.



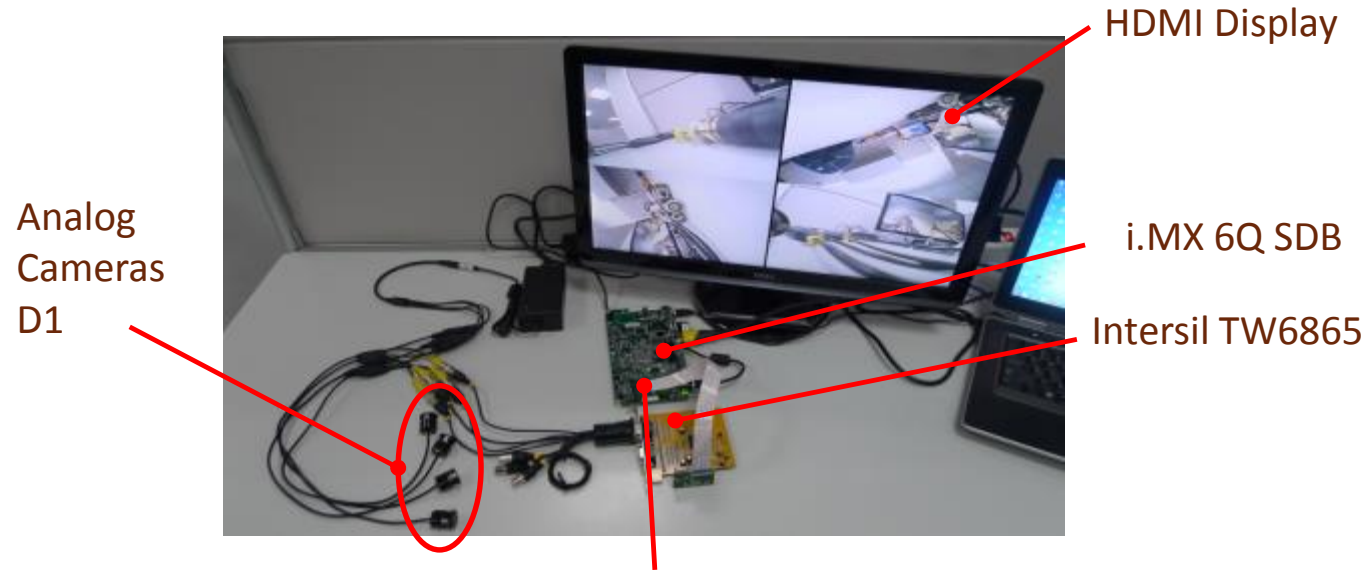
- 1x 1080p HDMI
- 2x 720p LVDS

Target on Android KitKat 4.4.3
i.MX6Q SABRESD Board



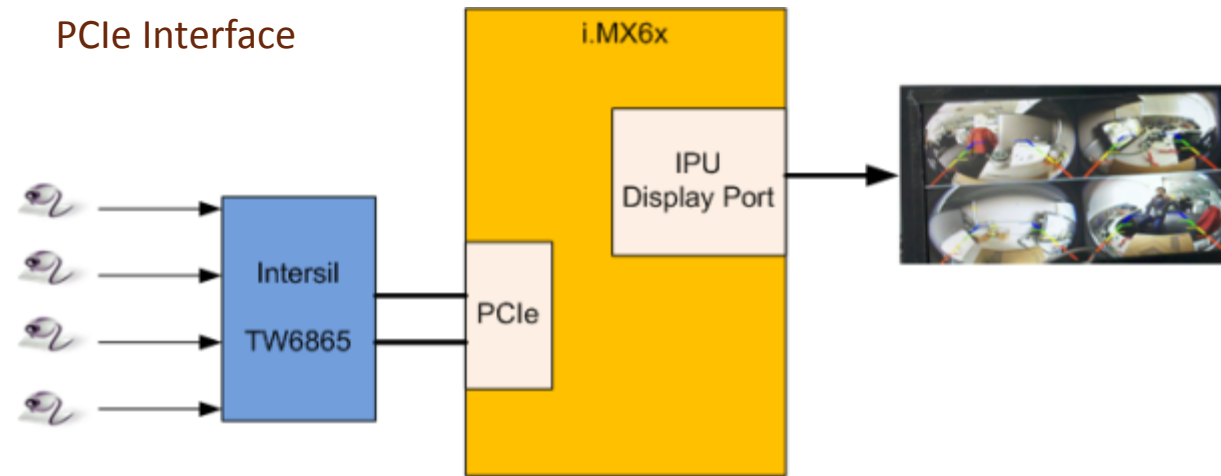


CVBS 360° Surround View - PCIe



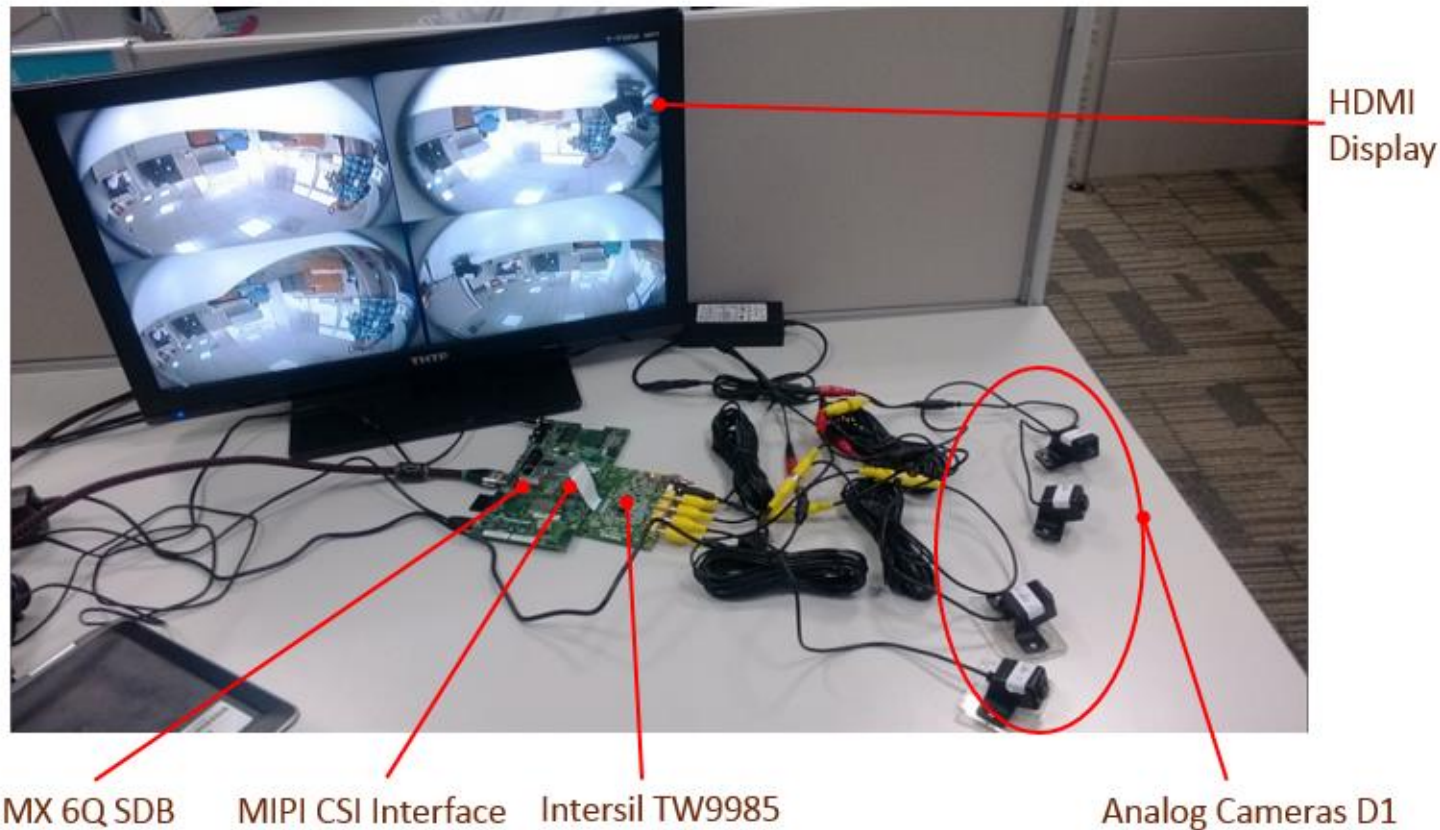
- 4x D1 Analog Camera
- PCIe input
- HDMI output

Target on Linux 3.10.17
i.MX6Q SABRESDB Board





CVBS 360° Surround View – MIPI CSI



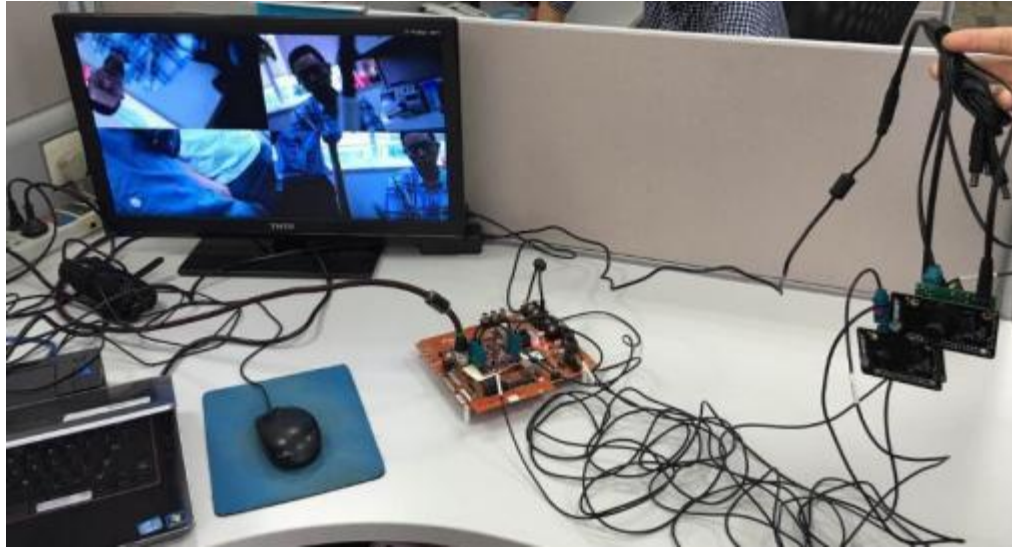
- 4x D1 Analog Camera
- MIPI CSI input
- HDMI display output

Target on Linux 3.10.53
i.MX6Q SABRESB Board



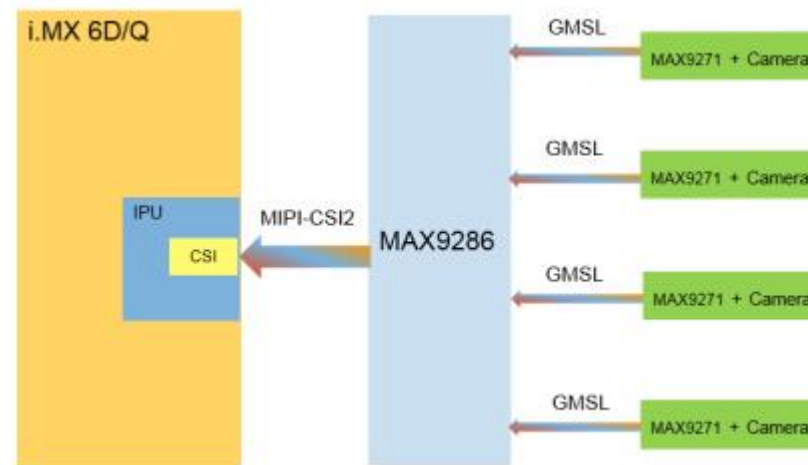


LVDS 360° Surround View – MIPI CSI



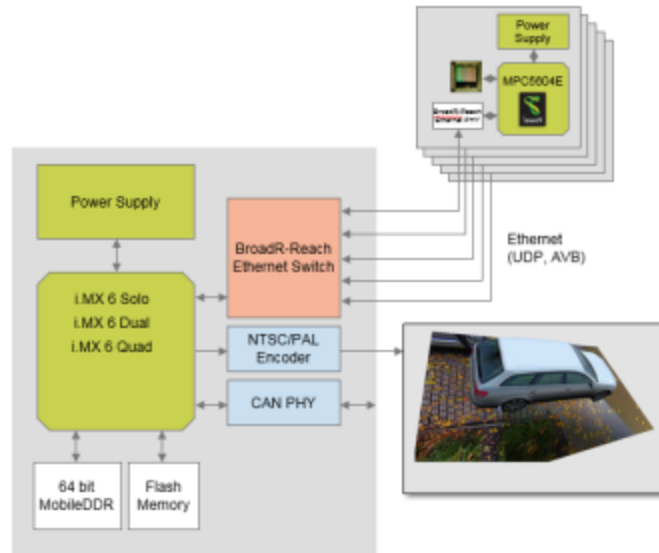
- 4x 720p Digital Camera
- MIPI CSI input
- HDMI display output

Target on Linux 3.10.53
i.MX6Q SABREAI Board





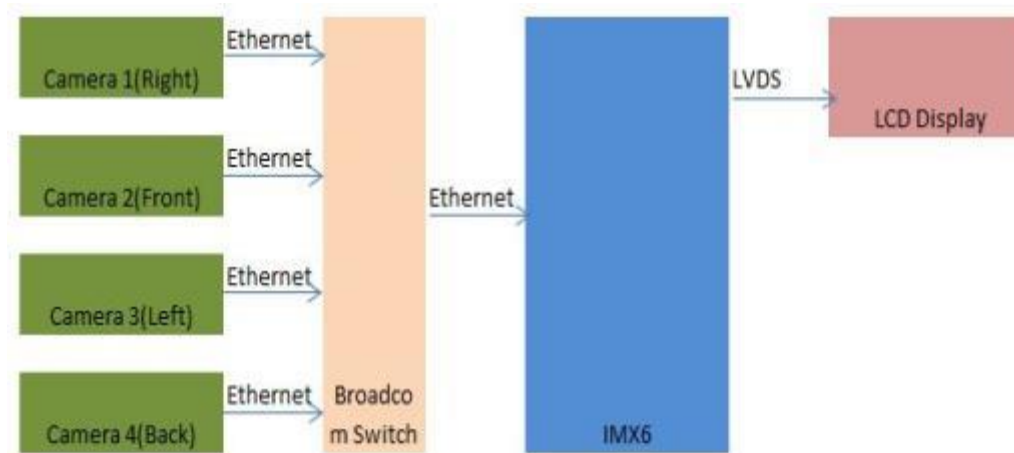
Ethernet 360° Surround View



- Required:
- iMX6DQ platform
 - Broadcom switch
 - MPC5604E MCU
 - OV camera sensor
- * AVB is provided by software service

- 4x 720p Digital Camera
- Ethernet input
- LVDS display output

Target on Linux 3.14.28
i.MX6Q/DL SABRESD Board





Digital Cluster

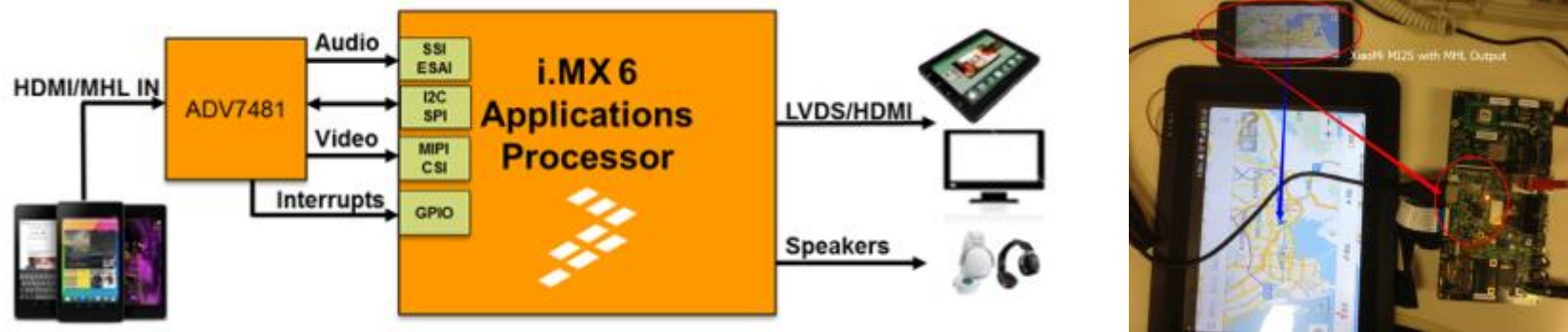
- Virtual cluster demo is built on top of the Linux fastboot demonstration published in the IMXCommunity.
- The boot time is roughly 1.2s. The demonstration is based on L3.0.101_4.1.1 BSP release running on i.MX6Q/DL SDP board.





HDMI MHL-In

- This reference design shows how to make a HDMI/MHL output device access to i.MX platform through the ADV7481 which act as a bridge that convert HDMI/MHL signal to MIPI (video) & I2S (audio) signal.



- The ADV7481 MHL 2.1 capable receiver supports a maximum pixel clock frequency of 75 MHz, allowing resolutions up to 720p/1080i at 60 Hz in 24-bit mode. The ADV7481 HDMI capable receiver supports a maximum pixel clock frequency of 162 MHz, allowing HDTV formats up to 1080p, and display resolutions up to UXGA (1600 × 1200 at 60 Hz). Below is the HDMI/MHL IN system block diagram
- Target on Linux 3.10.53 and Android KitKat 4.4.2 on i.MX6Q/DL SDB



Android KitKat EInk Support

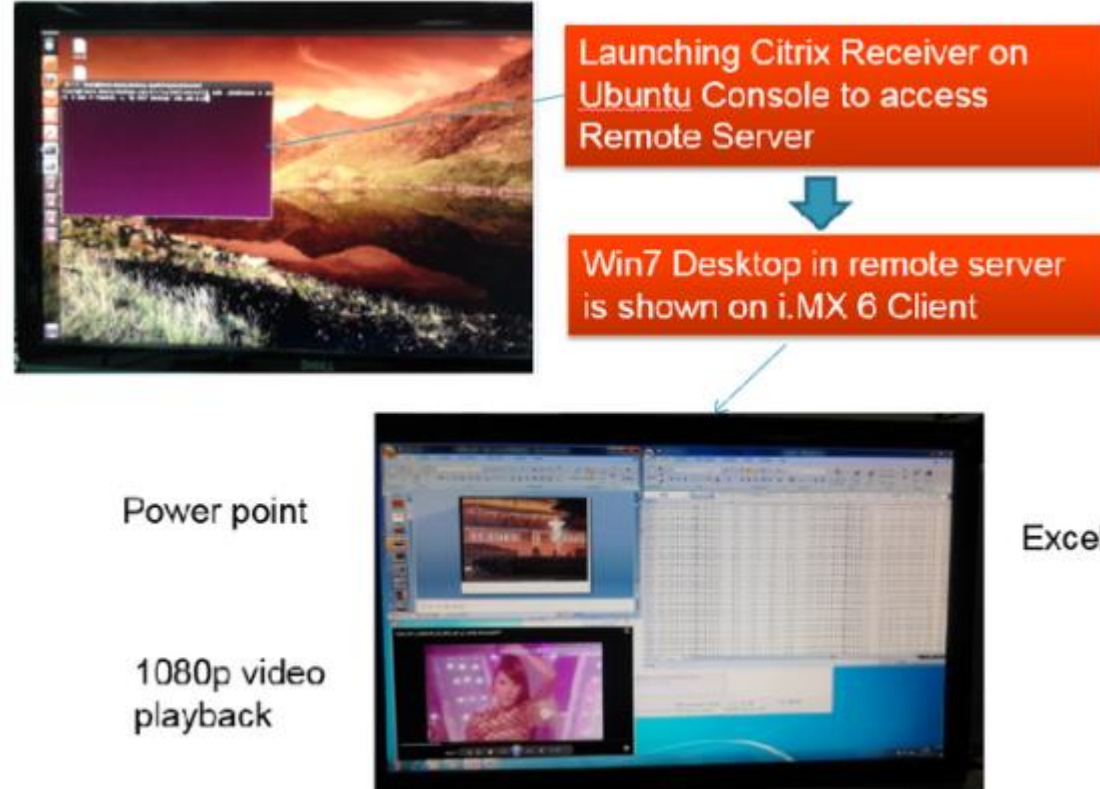
- Android is a common operation system in portable devices including mobile phone and tablet, also a choice for eReader.
- There is a device driver in Linux kernel to support E-Ink feature but it is needed to modify the Android framework so that Android application will not handle any additional update requirement of E-Ink.
- Target on Android KitKat 4.4.2





ThinClient

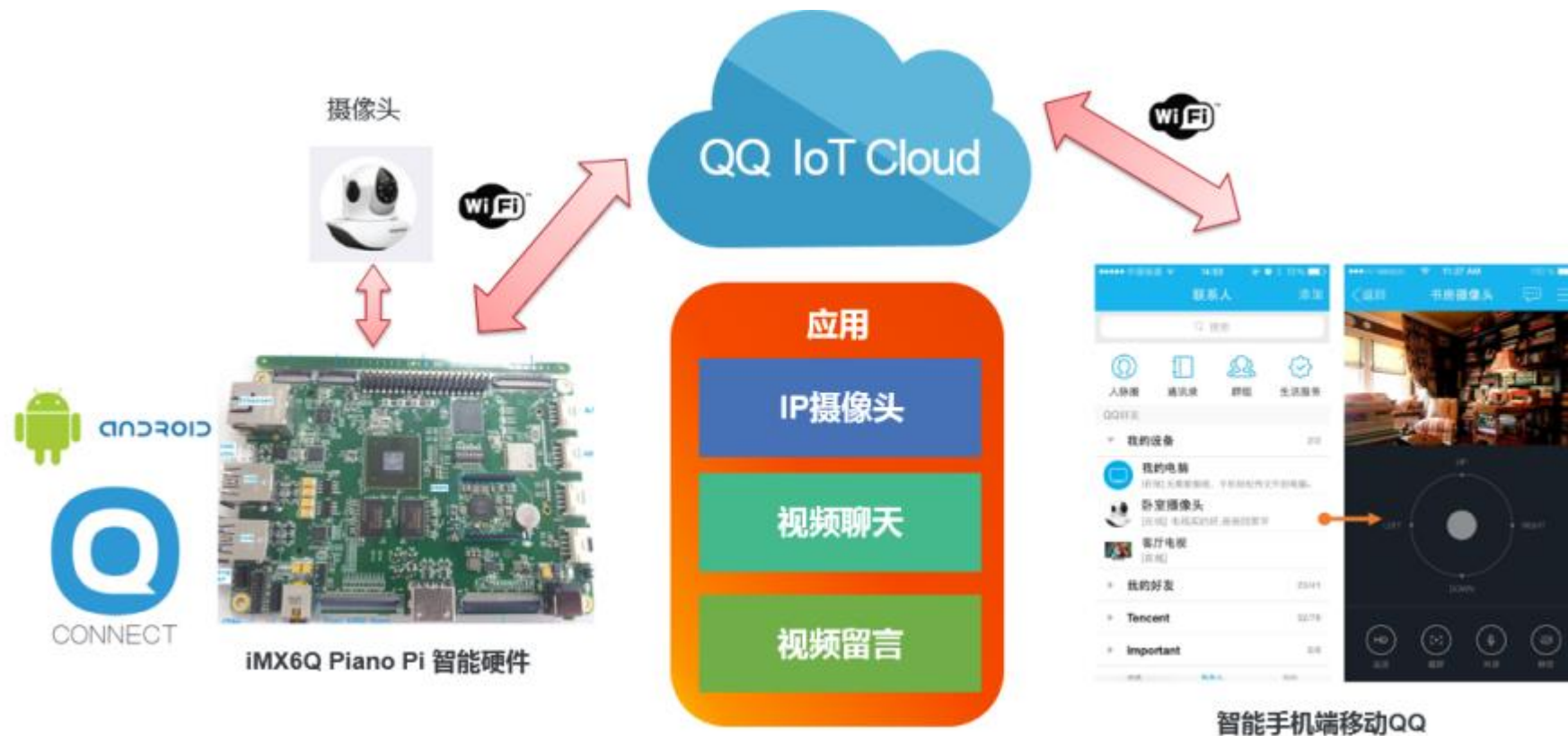
- Receiver is a Linux application that provides access to a session running on a server.
- When the connection to the server is established, it is similar to working on a local computer on the client side
- Target on Linux 3.0.35 for i.MX6Q/DL SABRESD Board





QQ IoT

- QQ IoT on i.MX6UL EVK (Linux) and i.MX6Q Piano Pi (Android) Board





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