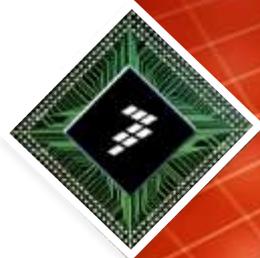




# i.MX 6 Series Portfolio Overview

## AMF-CON-T0060

**Pat Stilwell**  
Product Marketing



August 2013

Freescale, the Freescale logo, AllWin, C-5, CodeTEST, CodeWarrior, ColdFire, ColdFire+, C-Wire, the Energy Efficient Solutions logo, i.MX, i.MX2, i.MX2GT, PGG, PowerQUICC, Processor Expert, QoIQ, QoIQv2, SafeAssure, the SafeAssure logo, StarCore, Sparc5 and Vrt100 are trademarks of Freescale Semiconductor, Inc., Reg. U.S. Pat. & Tm. Off. AirBot, BeeBee, BeeStack, Coherent, Flexio, LayerScope, MagiKit, M6C, Platform in a Package, QoIQ Converge, QUICC Engine, Ready Plug, SMARTMOS, Tower, TurboLink, Vybrid and Xtrinsic are trademarks of Freescale Semiconductor, Inc. All other product or service names are the property of their respective owners. © 2013 Freescale Semiconductor, Inc.









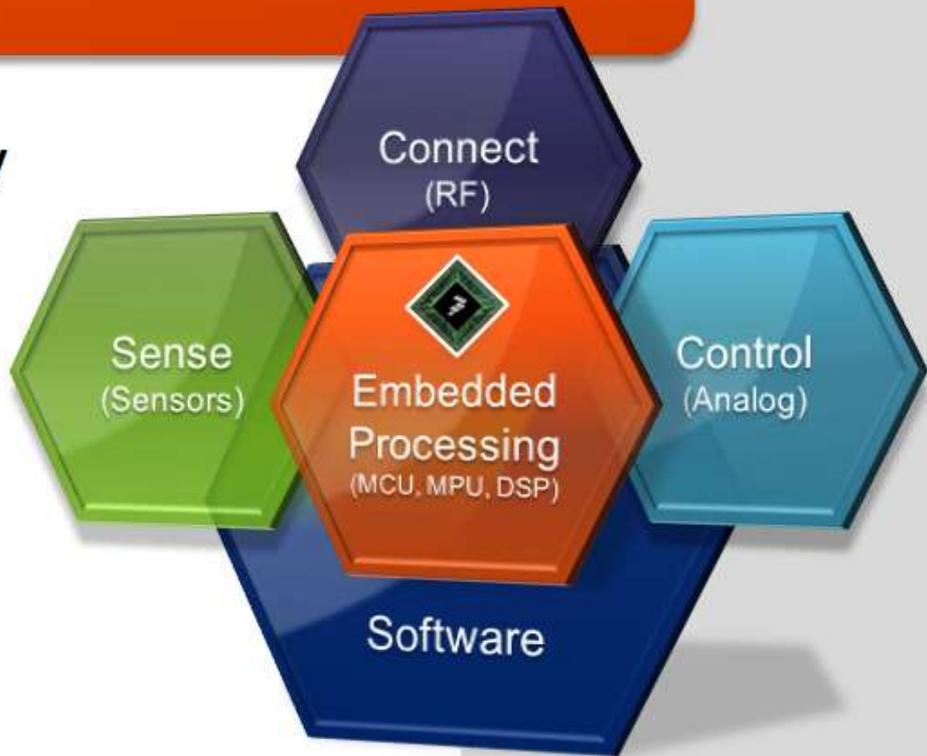
# A Global Leader of Embedded Processing Solutions

## Two Core Product Groups

- Automotive, Industrial & Multi-Market Solutions
  - Microcontrollers
  - Sensors
  - Analog
- Networking and Multimedia Solutions
  - Communications Processors
  - Applications Processors
  - RF Power

## Four Primary Markets

- Automotive
- Industrial
- Networking
- Consumer



## Platform-Level Solutions

>50 Year Legacy

>5,500 Engineers

>6,000 Patent Families

>18,000 Customers



Freescale, the Freescale logo, AllFlex, C-8, CodeTEST, CodeWarrior, ColdFire, ColdFire+, C-Ware, the Energy Efficient Solutions logo, Kinetics, mobileGT, PEG, PowerQUICC, Processor Expert, QorIQ, QorViva, SafeAssure, the SafeAssure logo, StarCore, iLighting and Vybrid are trademarks of Freescale Semiconductor, Inc., Reg. U.S. Pat. & Tm. Off. Artix, BeakIt, BeakBack, CoreNet, Flexis, Layerape, MagniV, MXC, Platform in a Package, QorIQ Convergence, QorIQ Engine, Ready Play, SMARTMOS, Tower, TurboLink, Vybrid and Xtrinsic are trademarks of Freescale Semiconductor, Inc. All other product or service names are the property of their respective owners. © 2013 Freescale Semiconductor, Inc.







# Freescale i.MX Applications Processors

## i.MX 6Quad



High Performance Tablet



Media Box



Luxury Infotainment



Advanced HMI

## i.MX 6Dual i.MX 6DualLite

## i.MX53



Color eReader



Business Tablet



Mainstream Infotainment



Medical

## i.MX 6Solo i.MX 6SoloLite

## i.MX28, i.MX233, i.MX25, i.MX35, i.MX50



Monochrome eReader



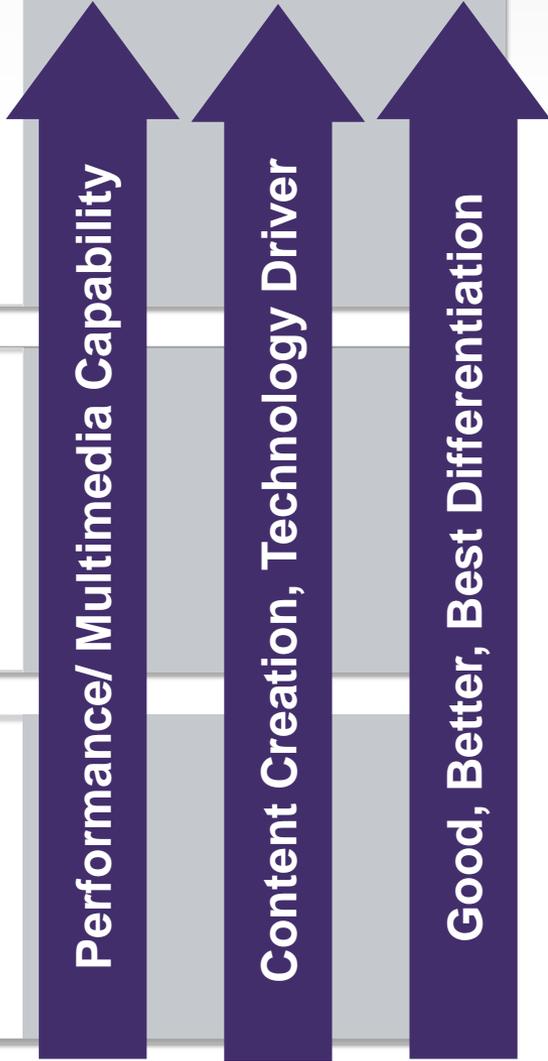
Single Function Tablet



Connected Radio

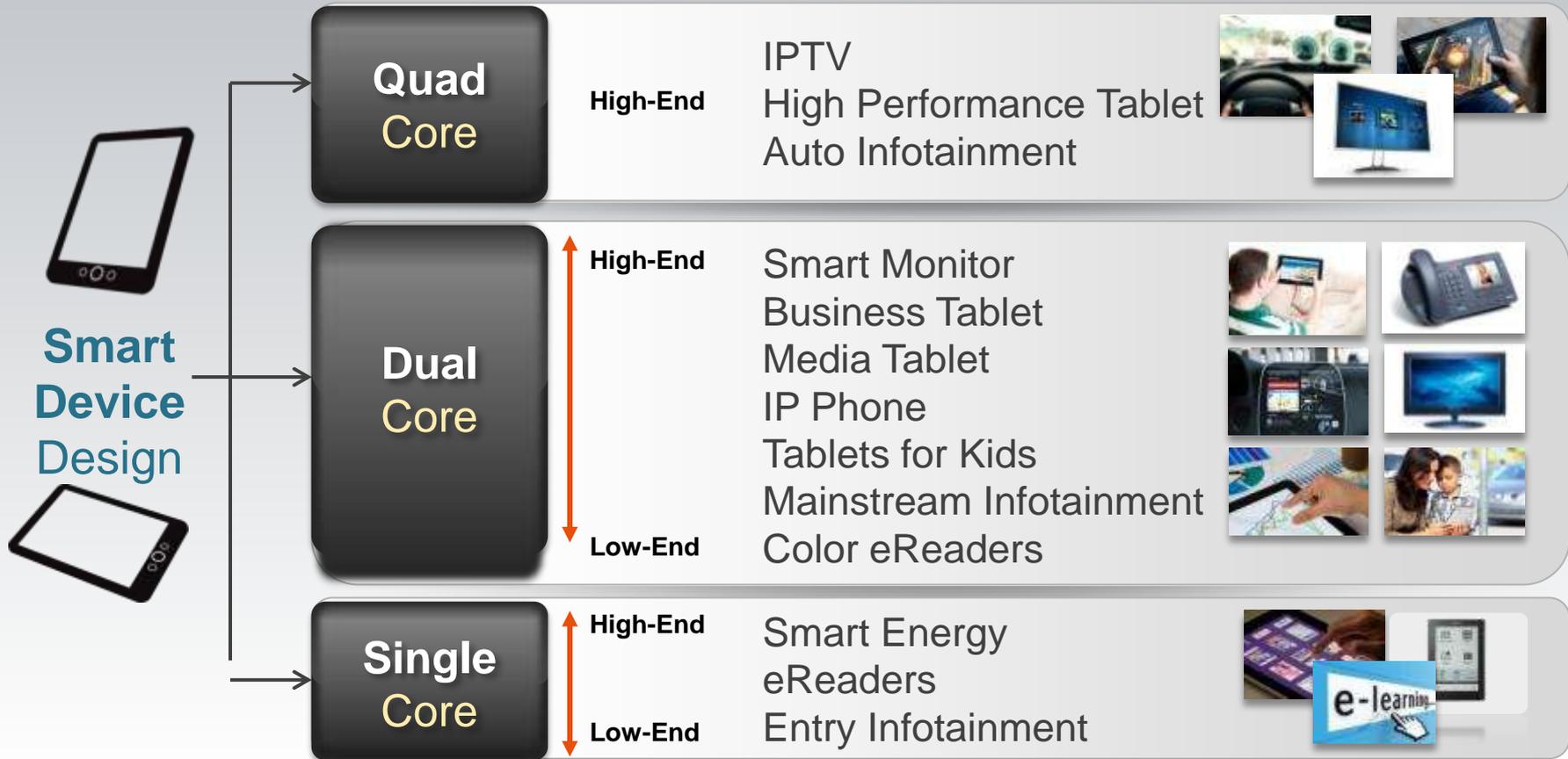


Smart Energy Meter



# i.MX 6: One Platform, Differentiated Products

**Saves development costs and improves time to market.**  
**Scalability with multiple cores is key to implement this strategy.**

























# User Interfaces – Characteristics and Implications

- **UI content is inherently dynamic**
  - Unlike Games (which use pre-cached images/textures)
  - User content can/will change at any time
  - Therefore UI must refresh continuously in case new content emerges
  - Requires high speed (533Mhz) and wide (64-bit) memory bus to ensure high frame rates

**Recommend Dual Core + 64-bit Memory Bus**

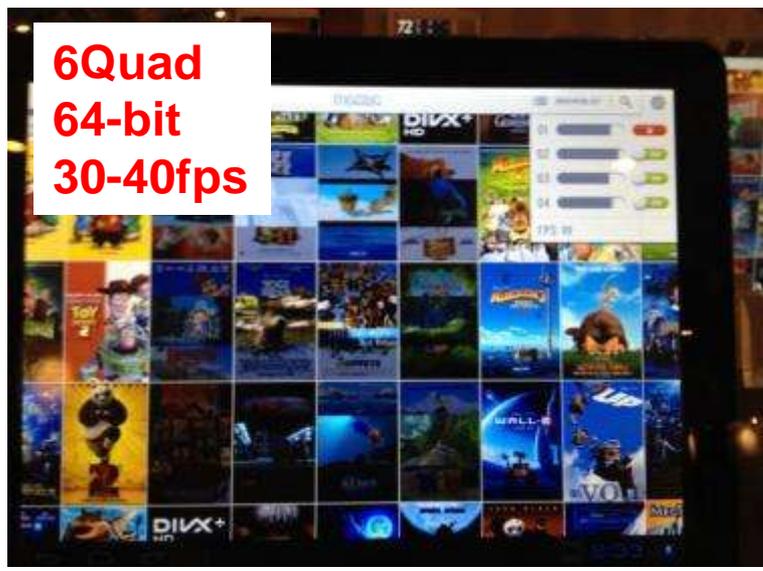
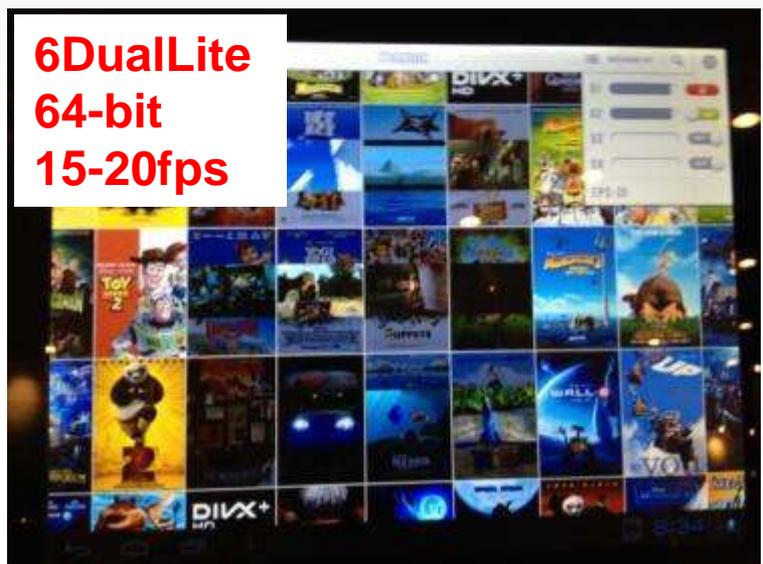
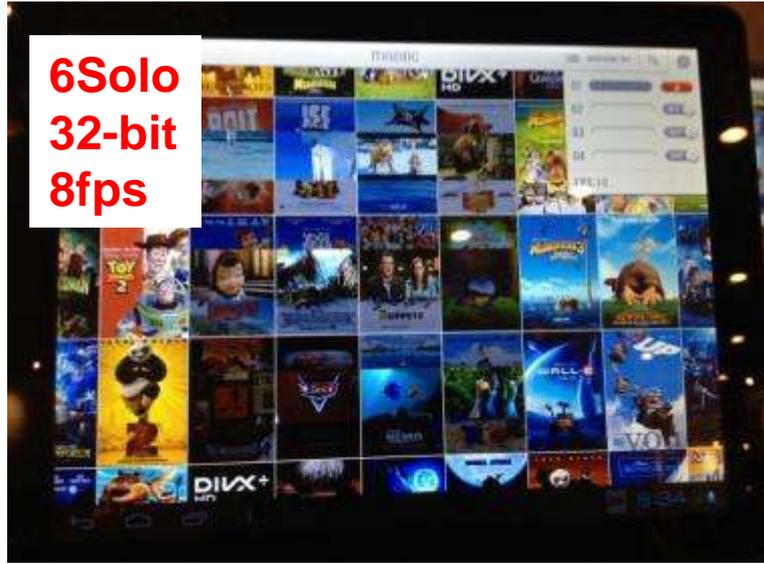


**User Content is dynamic and (potentially) always changing. Especially true of streaming movies, YouTube, pictures, home movies**

**User expects their 'latest' content to be instantly visible when scrolling (either touch or via remote with TV) Thumbnails must be visible and smooth as they scroll left to right.**



# User Interfaces in Action – Dual Core + 64-bit matters







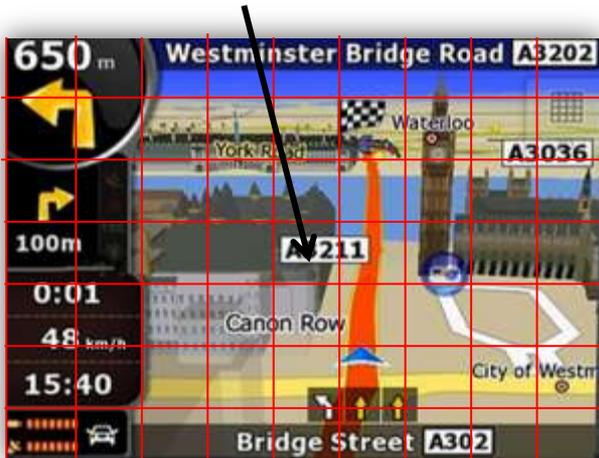




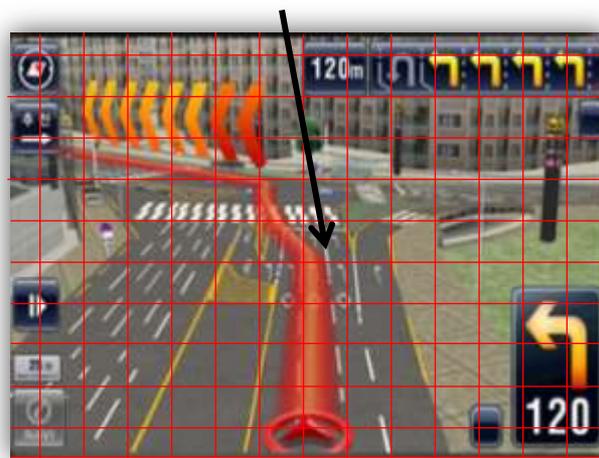
# Tile Based Rendering (Chunkers)

- Size of scene buffer unknown before rendering
  - Possible overflow if scene requires more data than expected
- Good rendering method for baseline GUI/3D Apps with smaller object count (less details)
  - More bandwidth efficient than FMR in simple (yesterday) use cases
- For next generation dynamic scenes in new and future applications with lots of objects, details and post-processing effects, tile based Chunkers require multi-pass memory access to constantly process changing 3D/scene data
  - PC Level Applications (Performance, Quality, Effects) → Tablets → Smartphones → Infotainment

**Tile**



**Tile**



**Tile (Complex Scene)**

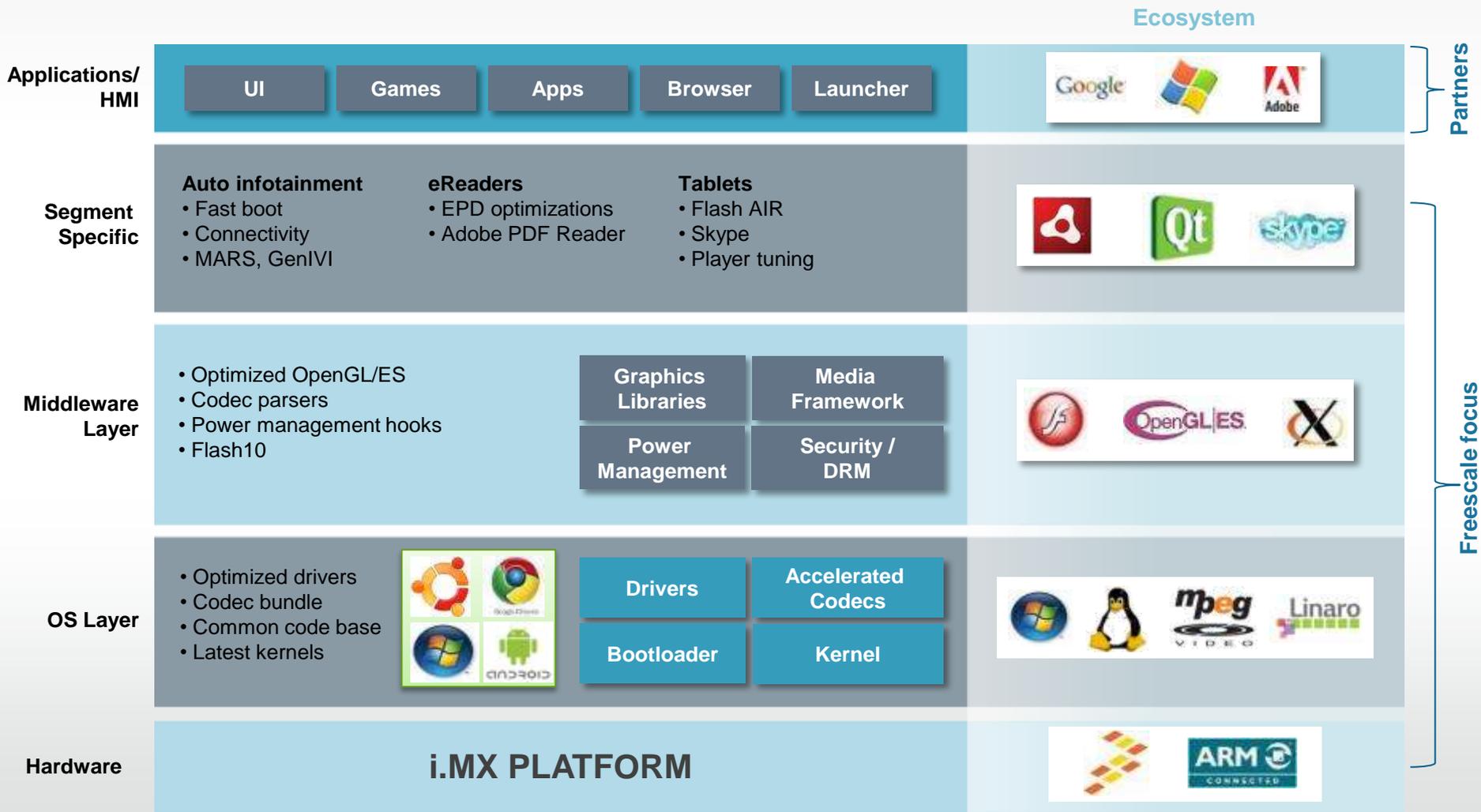








# Software Completeness



Freescale, the Freescale logo, AllNet, CoS, CodeTEST, CodeWarrior, CoreLink, CoreLink, CoStar, the Energy Efficient Solutions logo, i.MX, i.MX200, i.MX207, i.MX210, i.MX211, i.MX212, i.MX213, i.MX214, i.MX215, i.MX216, i.MX217, i.MX218, i.MX219, i.MX220, i.MX221, i.MX222, i.MX223, i.MX224, i.MX225, i.MX226, i.MX227, i.MX228, i.MX229, i.MX230, i.MX231, i.MX232, i.MX233, i.MX234, i.MX235, i.MX236, i.MX237, i.MX238, i.MX239, i.MX240, i.MX241, i.MX242, i.MX243, i.MX244, i.MX245, i.MX246, i.MX247, i.MX248, i.MX249, i.MX250, i.MX251, i.MX252, i.MX253, i.MX254, i.MX255, i.MX256, i.MX257, i.MX258, i.MX259, i.MX260, i.MX261, i.MX262, i.MX263, i.MX264, i.MX265, i.MX266, i.MX267, i.MX268, i.MX269, i.MX270, i.MX271, i.MX272, i.MX273, i.MX274, i.MX275, i.MX276, i.MX277, i.MX278, i.MX279, i.MX280, i.MX281, i.MX282, i.MX283, i.MX284, i.MX285, i.MX286, i.MX287, i.MX288, i.MX289, i.MX290, i.MX291, i.MX292, i.MX293, i.MX294, i.MX295, i.MX296, i.MX297, i.MX298, i.MX299, i.MX300, i.MX301, i.MX302, 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# NXP i.MX 6 Series feature list (2/4)

Red indicates change from column to the left

	i.MX 6SoloLite	i.MX 6Solo	i.MX 6DualLite	i.MX 6Dual	i.MX 6Quad
<b>Ethernet</b>	1x 10/100	<b>1x GbE*</b> + IEEE1588 <b>* performance limited to 480Mbps</b>	1x GbE* + IEEE1588 * performance limited to 480Mbps	1x GbE*+ IEEE1588 * performance limited to 480Mbps	1x GbE*+ I EEE1588 * performance limited to 480Mbps
<b>USB</b>	3x USB2.0 HS • 1x OTG + PHY • 1x Host + PHY • 1x Host HSIC	<b>4x USB2.0 HS</b> • 1x OTG + PHY • 1x Host + PHY • <b>2x Host HSIC</b>	4x USB2.0 HS • 1x OTG + PHY • 1x Host + PHY • 2x Host HSIC	4x USB2.0 HS • 1x OTG + PHY • 1x Host + PHY • 2x Host HSIC	4x USB2.0 HS • 1x OTG + PHY • 1x Host + PHY • 2x Host HSIC
<b>CAN</b>	-	<b>2x FlexCAN</b>	2x FlexCAN	2x FlexCAN	2x FlexCAN
<b>MLB</b>	-	<b>MLB 25/50/150</b>	MLB 25/50/150	MLB 25/50/150	MLB 25/50/150
<b>PCIe</b>	-	<b>1x PCIe 2.0 (x1 lane)</b>	1x PCIe 2.0 (x1 lane)	1x PCIe 2.0 (x1 lane)	1x PCIe 2.0 (x1 lane)
<b>SD/MMC</b>	3x SD/MMC 4.4 1x SDXC	3x SD/MMC 4.4 1x SDXC	3x SD/MMC 4.4 1x SDXC	3x SD/MMC 4.4 1x SDXC	3x SD/MMC 4.4 1x SDXC
<b>MIPI</b>	-	<b>MIPI-CSI2</b> <b>MIPI-DSI</b>	MIPI-CSI2 MIPI-DSI	MIPI-CSI2 MIPI-DSI <b>MIPI-HSI</b>	MIPI-CSI2 MIPI-DSI MIPI-HSI
<b>Camera Interface</b>	1x Input • 1x 16-bit Parallel	<b>2x Inputs</b> • <b>2x 20-bit Parallel</b> • <b>2x lane MIPI-CSI2</b>	2x Inputs • 2x 20-bit Parallel • 2x lane MIPI-CSI2	<b>3x Inputs</b> • 2x 20-bit Parallel • <b>4x lane MIPI-CSI2</b>	3x Inputs • 2x 20-bit Parallel • 4x lane MIPI-CSI2
<b>HDD I/F</b>	-	-	-	<b>S-ATA II 3Gbps</b>	S-ATA II 3Gbps
<b>Audio Acc.</b>	-	<b>ASRC</b>	ASRC	ASRC	ASRC
<b>Audio</b>	3x I2S SPDIF Tx/Rx	3x I2S SPDIF Tx/Rx ESAI	3x I2S SPDIF Tx/Rx ESAI	3x I2S SPDIF Tx/Rx ESAI	3x I2S SPDIF Tx/Rx ESAI



# i.MX 6 Series feature list (3/4)

Red indicates change from column to the left

	i.MX 6SoloLite	i.MX 6Solo	i.MX 6DualLite	i.MX 6Dual	i.MX 6Quad
<b>Display Resolution (@60Hz)</b>	WXGA (WXGA=1366x768)	<b>2x</b> WXGA	2x WXGA	<b>2x 4XGA or 2x [1080p + WXGA]</b> (4XGA=2048x1536)	2x 4XGA or 2x [1080p + WXGA]
<b>Display Interfaces</b>	2x Outputs • 1x Parallel • EPDC	2x Outputs • <b>2x</b> Parallel • <b>2x</b> LVDS • <b>HDMI</b> • <b>MIPI-DSI</b> • EPDC	2x Outputs • 2x Parallel • 2x LVDS • HDMI • MIPI-DSI • EPDC	<b>4x</b> Outputs • 2x Parallel • 2x LVDS • HDMI • MIPI-DSI	4x Outputs • 2x Parallel • 2x LVDS • HDMI • MIPI-DSI
<b>GPU 3D</b>	-	<b>Vivante GC880</b> • <b>53Mtri/s</b> • <b>266Mpxl/s</b> • <b>OpenGL ES 1.1/2.0/3.0</b>	Vivante GC880 • 53Mtri/s • 266Mpxl/s • OpenGL ES 1.1/2.0/3.0	<b>Vivante GC2000</b> • <b>176Mtri/s</b> • <b>1000Mpxl/s</b> • OpenGL ES 1.1/2.0/3.0 • <b>OpenCL 1.1 EP</b>	Vivante GC2000 • 176Mtri/s • 1000Mpxl/s • OpenGL ES 1.1/2.0/3.0 • OpenCL 1.1 EP
<b>GPU 2D (Vector Graphics)</b>	Vivante GC355 • 300Mpxl/s • OpenVG 1.1	via GPU 3D • OpenVG 1.1	via GPU 3D • OpenVG 1.1	<b>Vivante GC355</b> • <b>300Mpxl/s</b> • OpenVG 1.1	Vivante GC355 • 300Mpxl/s • OpenVG 1.1
<b>GPU 2D (BLIT)</b>	Vivante GC320 • 600Mpxl/s	Vivante GC320 • 600Mpxl/s	Vivante GC320 • 600Mpxl/s	Vivante GC320 • 600Mpxl/s	Vivante GC320 • 600Mpxl/s
<b>Video Dec</b>	SW Only	<b>1080p30 + D1 MPEG-2, H.264 MVC, VC1, MPEG-4/Xvid, DivX 6, H.263, MJPEG, VP6 / WebM VP8</b>	1080p30 + D1 MPEG-2, H.264 MVC, VC1, MPEG-4/Xvid, DivX 6, H.263, MJPEG, VP6 / WebM VP8	<b>1080p60 + D1 2x 1080p30</b> MPEG-2, H.264 MVC, VC1, MPEG-4/Xvid, DivX 6, H.263, MJPEG, VP6 / WebM VP8	1080p60 + D1 2x 1080p30 MPEG-2, H.264 MVC, VC1, MPEG-4/Xvid, DivX 6, H.263, MJPEG, VP6 / WebM VP8
<b>Video Enc</b>	-	<b>1080p30 2x 720p</b> H.264, H.263, MPEG-4, MPEG-2, MJPEG	1080p30 2x 720p H.264, H.263, MPEG-4, MPEG-2, MJPEG	1080p30 2x 720p H.264, H.263, MPEG-4, MPEG-2, MJPEG	1080p30 2x 720p H.264, H.263, MPEG-4, MPEG-2, MJPEG





# Freescale i.MX 6 series Development Systems

## SABRE Board for Smart Devices

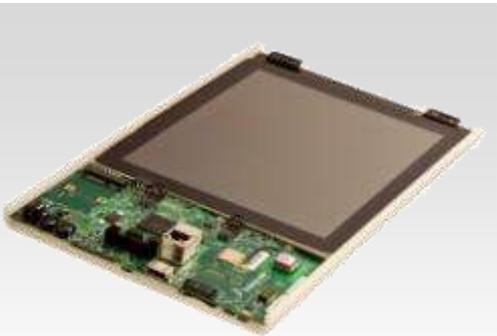


P/N: MCIMX6Q-SDB

- **Cost-effective (\$399)**, open source development platform
- Designed to **simplify product evaluation**



## SABRE Platform for Smart Devices



P/N: MCIMX6Q-SDP  
MCIMX6DL-SDP

- Smart Device Market-focused
- Form-factor ready to **accelerate design** & time to market (**\$999**)

## SABRE Platform for Automotive Infotainment



P/N: MCIMXABASEV1  
MCIMX6SAICPU1  
MCIMX6QAICPU1

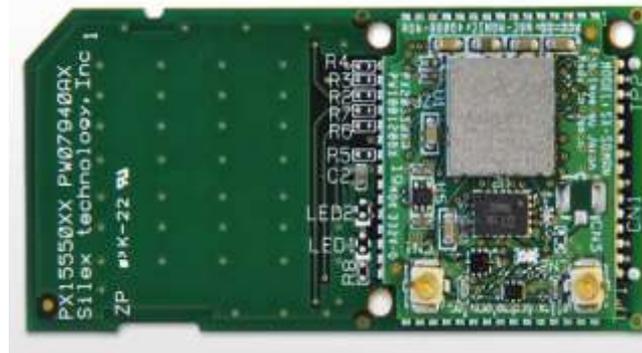
- Automotive Market-focused
- Standard base board (**\$699**) and adaptable CPU card (**\$799**) system







- 802.11a/b/g/n low power SDIO cad based on Qualcomm Atheros AR6003
- Wi-Fi driver software integrated with Freescale i.MX 6 platform
- Family of hardware solutions available
  - System-in-Package (SiP)
  - Radio Module
  - SD Card Form Factor









# Backup



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