

恩智浦人机界面平台 和解决方案

微处理器事业部市场经理 弋方
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SECURE CONNECTIONS
FOR A SMARTER WORLD

PUBLIC

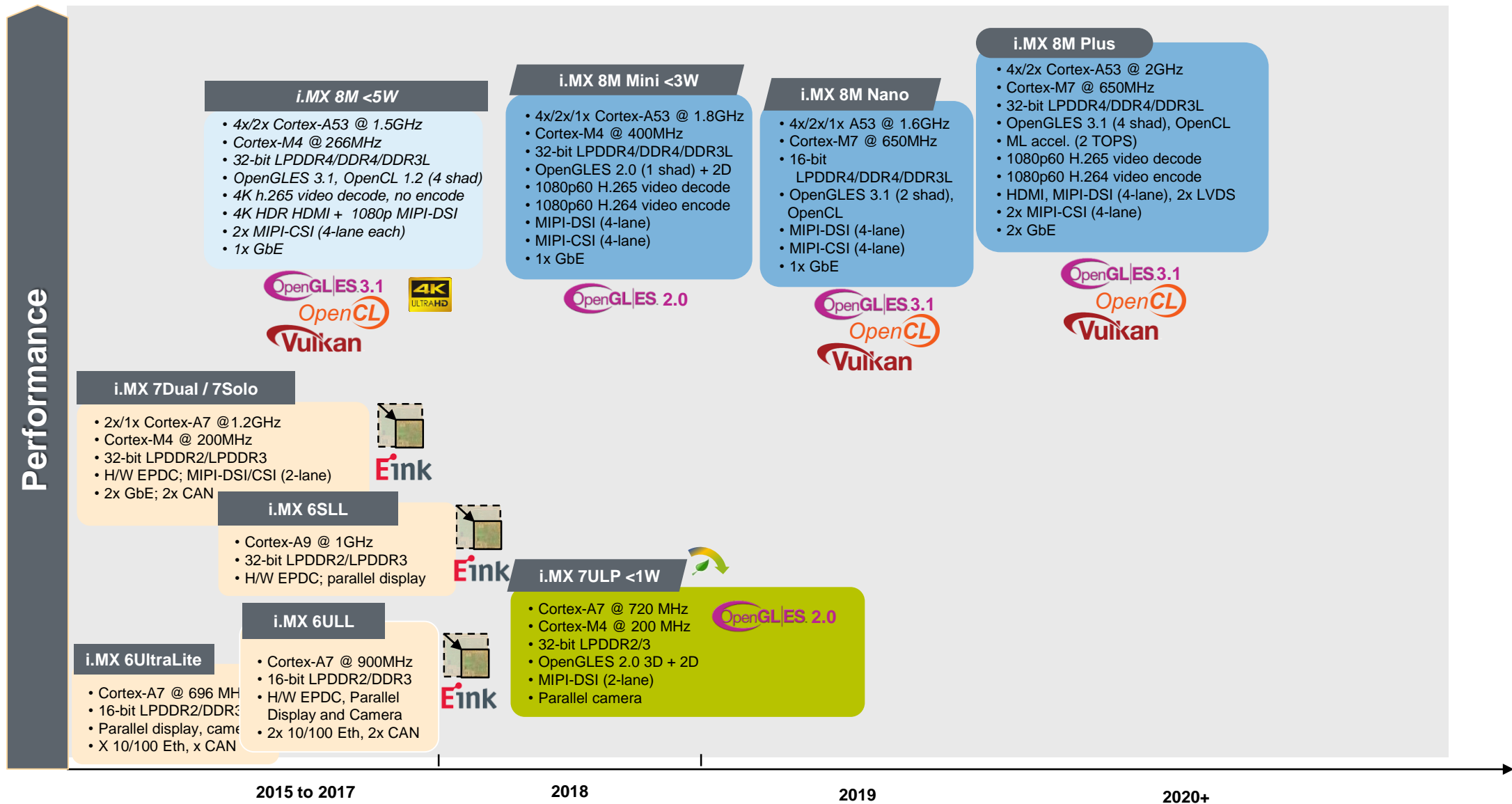
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EDGE PROCESSING PLATFORM





RECOMMENDED MPUS FOR GRAPHICS

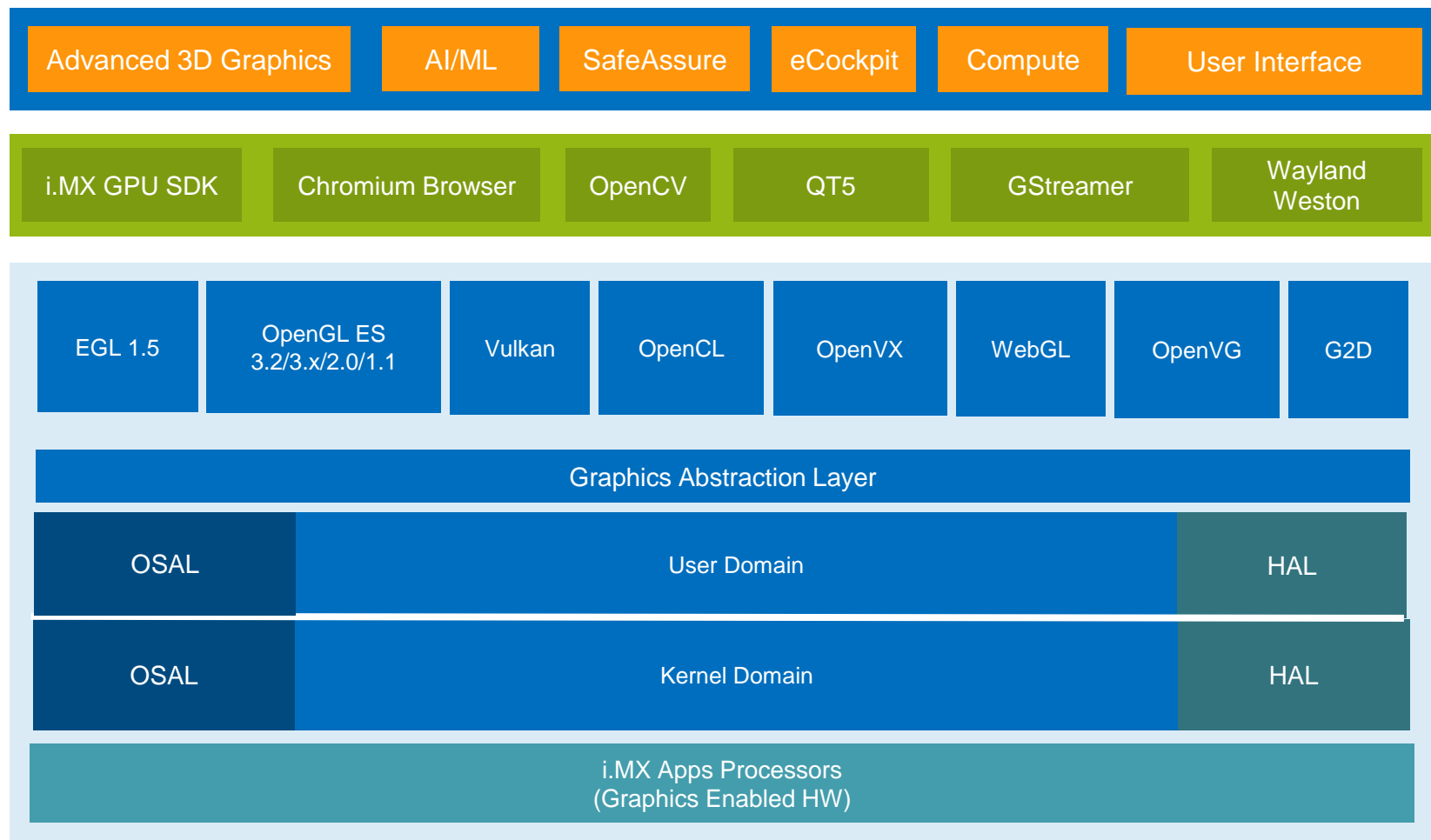


GRAPHICS SOFTWARE OPTIMIZED FOR ALL I.MX PROCESSORS

- Unified software for all i.MX applications processors, optimized for all supported OS

- Conformant standard APIs supporting major graphics and compute frameworks

-  NXP Supported SW
-  NXP Accelerated Frameworks



i.MX 8M FAMILY: EXTENDS ACROSS MULTIPLE APPLICATIONS

i.MX 8M family

1-4x A53

M4/M7

General Purpose Edge Processing

- High Performance Computing w/ up to 4x Cortex-A53 cores
- Up to 2+ TOPS ML acceleration
- Cortex-M co-processor for HMP
- Video Encode/Decode
- 3D GPU
- Display/Camera
- High Speed Interfaces
- High-end Audio Support
- Hardware Scalability
- Software Scalability
- Industrial and Consumer

Similar 'look and feel' to the popular i.MX 6 series, but with upgraded performance and features

- ### i.MX 8M Plus
- 8M Plus Quad/QuadLite
 - 8M Plus Dual

- ### i.MX 8M
- 8M Quad/QuadLite
 - 8M Dual

- ### i.MX 8M Mini
- 8M Mini Quad/QuadLite
 - 8M Mini Dual/DualLite
 - 8M Mini Solo/SoloLite

- ### i.MX 8M Nano
- 8M Nano Quad/QuadLite
 - 8M Nano Dual/DualLite
 - 8M Nano Solo/SoloLite
 - 8M Nano QuadUltraLite*
 - 8M Nano DualUltraLite*
 - 8M Nano SoloUltraLite*

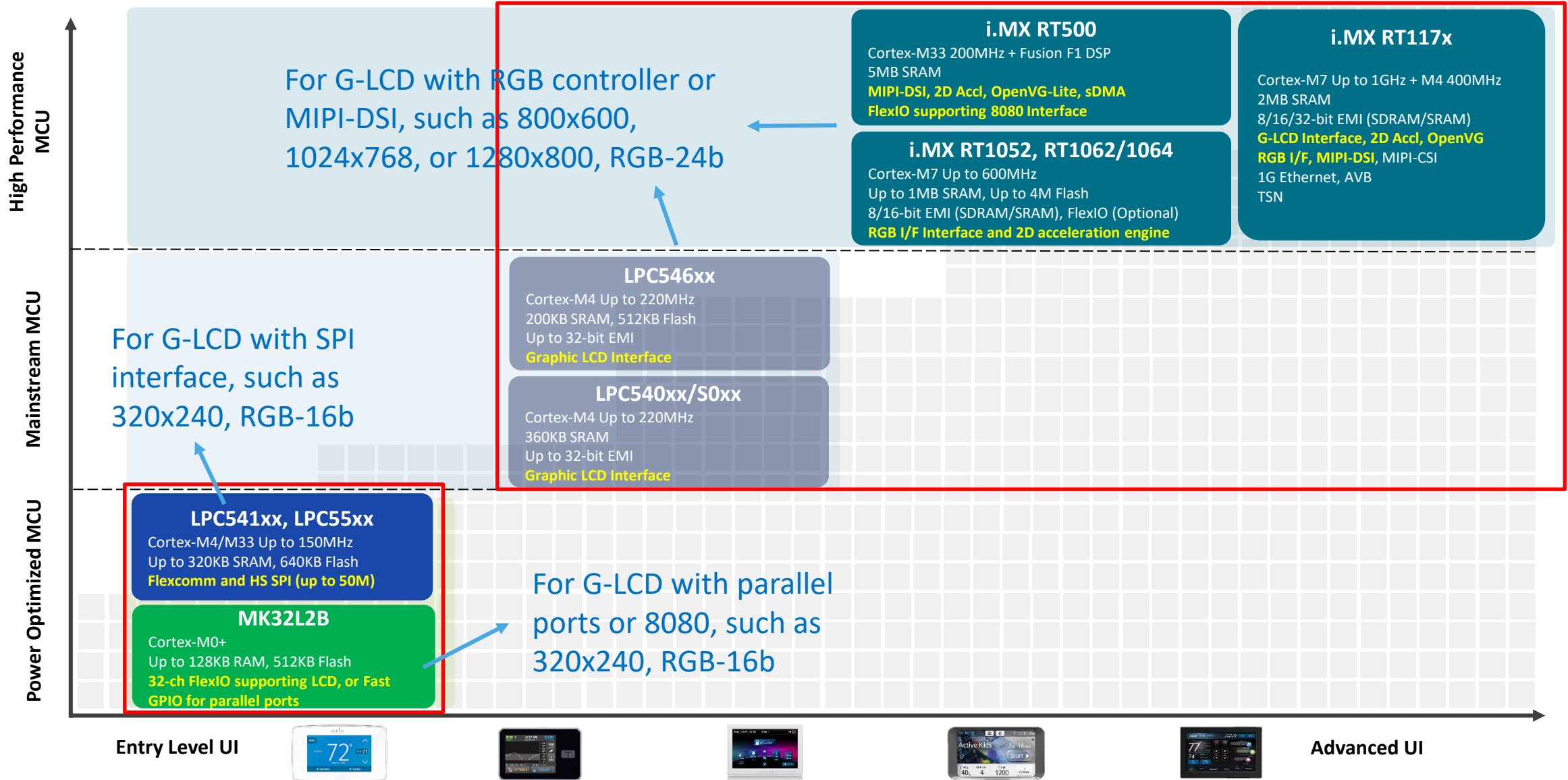
*11x11 package sampling Q4-2020, not pin-compatible with 14x14 package i.MX 8M Mini or Nano

Pin-to-pin Compatible

Software Compatible



RECOMMENDED MCUS FOR GRAPHICS



* Select NXP devices also support segment LCDs

† Recommended platforms for graphics applications – does not include all device families that are enabled for graphics applications

MCU GUI PARTNERS OVERVIEW

Provider / Product	Language	GUI builder tools	Business model	RTOS required?	Support LPC54xxx/55xx, RT101x/102x	Support RT105x/106x, RT117x, RT500
AWTK	C	AWTK Designer	Open source to end customer	Optional (RTOS)	✓	✓
Crank/Story Board*	C/C++	Crank Software	Developer seats, volume based product line license	Optional (any)		✓
LVGL*	C/C++	Visual Studio, Eclipse, NXP Builder	Open source, free	Optional (any)	✓	✓
MicroEJ	C/C++/Java	NA	Developer seat licenses, volume based licenses	Yes (MicroEJ)		✓
QT for MCU	C++	QT Design Studio, QT Creator	Three types of license: GPL (open source & free), LGPL (free), and Commercial	Optional (any)		✓
RT-Thread/Persimmon UI	C/C++	Persimmon UI	Developer seat licenses, volume based licenses	Yes (RT-Thread)	✓	✓
SEGGER / emWIN*	C	GUI Builder, AppWizard	Free/no royalty object (via NXP), per product source license available from SEGGER	Optional (any)	✓	✓
TARA / Embedded Wizard*	C/Javascript	Embedded Wizard Studio	Developer seats, volume based product line license	Optional (any)	✓	✓

* Demos are available in NXP MCUXpresso SDK.



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