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GoPoint for i.MX Applications Processors Release Notes

Rev. 3 — 15 December 2023

Document information

Information	Content
Keywords	GoPoint, i.MX, demos, MPU, machine learning, GoPoint for i.MX Applications Processors
Abstract	This document contains information about the content, new features, and limitations of the GoPoint for i.MX Applications Processors interface.

1 Introduction

This document contains information about the content, new features, and limitations of the GoPoint for i.MX Applications Processors interface. The interface is user-friendly and allows you to launch preselected demonstrations. These demonstrations are included in the version 6.1.55_2.2.0 Linux board support package (BSP) that NXP provides. For more information, refer *Embedded Linux for i.MX Applications Processors* (document IMXLINUX). The GoPoint for i.MX Applications Processors and its demos are classified as *demo quality* software and must be used with caution.

2 Supported i.MX reference boards

This release supports the following i.MX reference boards:

- i.MX 9 Series
  – i.MX 93 EVK Board (93)
- i.MX 8 Series
  – i.MX 8ULP EVK Board (8ULP)
  – i.MX 8M Plus EVK Board (8MP)
  – i.MX 8DXL EVK Board (8DXL)
  – i.MX 8QuadXPlus MEK Board (8QXP)
  – i.MX 8QuadMax MEK Board (8QM)
  – i.MX 8M Quad EVK Board (8MQ)
  – i.MX 8M Mini EVK Board (8MM)
  – i.MX 8M Nano EVK Board (8MN)
- i.MX 7 Series
  – i.MX 7ULP EVKB Board (7ULP)

3 References

This release includes the following reference and additional information:

- *GoPoint for i.MX Applications Processors User Guide* (document GPNTUG) – provides the information about the GoPoint for i.MX Applications Processors

4 Supported demos

Table 1, Table 2, Table 3, and Table 4 lists the supported demos in this release.

Table 1. Machine learning demos

Demo name	Supported boards
Object classification (NNStreamer)	8MP, 8MM, 8QM, 93
Object detection (NNStreamer)	8MP, 8MM, 8QM, 93
Pose detection (NNStreamer)	8MP, 8MM, 8QM
Brand detection	8MP, 8MM, 8QM
ML benchmark demo	93
ML gateway	8MP, 8MM
Selfie segmentation	8MP, 93

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Table 1. Machine learning demos...*continued*

Demo name	Supported boards
Driver Monitoring System (DMS) demo	93

Table 2. Multimedia demos

Demo name	Supported boards
Video test demo	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP, 93
Face recognition	8MP
Camera using the Video Processing Unit (VPU)	8MP
Multi-camera preview	8MP
Image Sensor Processor (ISP) control demo	8MP
Video dump demo	8MP
Audio record	7ULP
Audio play	7ULP
i.MX Voice Control	8MP, 8MM
i.MX Multimedia Player	8MM, 8MP, 93
i.MX Smart Kitchen	8MM, 8MP, 93
2Way Video Streaming	8MP, 8MN, 8MM

Table 3. TSN demos

Demo name	Supported boards
TSN 802.1Qbv	8MM, 8MP

Table 4. GPU demos

Demo name	Supported boards
Tiger G2D	7ULP, 8MM, 8QM, 8QXP, 8MP, 8ULP, 8MQ, 8MN
Vivante launcher	7ULP, 8QM, 8QXP, 8MP, 8ULP
Cover flow	7ULP, 8ULP
Vivante tutorial	7ULP, 8ULP
Bloom	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP
Blur	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
Basic graphics 2D	7ULP, 8MM, 8QM, 8QXP, 8MP, 8ULP
Eight layer blend	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
Fractal shader	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
Line builder 101	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
Model loader	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
S03 transform	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP

Table 4. GPU demos...*continued*

Demo name	Supported boards
S04 projection	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
S06 texturing	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
Mapping	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP
Mapping refraction	7ULP, 8MN, 8MM, 8MQ, 8QM, 8QXP, 8MP, 8ULP

5 New features

This release includes the following new features:

• Rename from NXP Demo Experience to GoPoint for i.MX Applications Processors
• Added the 2Way Video Streaming application
• Minor fixes and updates

6 Known issues and workarounds

This release includes the following known issues and workarounds:

• Some demos require the GUI interface to be run at least once.
• The DMS demo can crash after running for long periods of time. Closing the launcher window solves this issue.
• Using the GPU on the i.MX 8QM EVK with the NNStreamer demos can have issues.
• 4K displays can see some overlap of the demo details.

7 Revision history

Table 5 summarizes the revisions to this document.

Table 5. Revision history

Revision number	Release date	Description
3	15 December 2023	• Updated for the 6.1.55_2.2.0 release • Rename from NXP Demo Experience to GoPoint for i.MX Applications Processors
2	30 October 2023	Updated for 6.1.36_2.1.0 release
1	30 August 2023	Updated for 6.1.22 release. Initial external release.

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