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## NXP GPNTUG Processor Camera Module



## Specifications

- **Product Name:** GoPoint for i.MX Applications Processors
- **Compatibility:** i.MX family Linux BSP
- **Supported Devices:** i.MX 7, i.MX 8, i.MX 9 families
- **Release Version:** Linux 6.12.3\_1.0.0

## Product Information

GoPoint for i.MX Applications Processors is a user-friendly application designed to showcase the features and capabilities of NXP provided SoCs. It includes preselected demonstrations in the NXP Linux Board Support Package (BSP) for easy access.

## Product Usage Instructions

1. Install the GoPoint application on your supported device.
2. Launch the GoPoint application to access the preselected demonstrations.
3. Follow the on-screen instructions to run the demos and explore the features.
4. For advanced users, consider modifying Device Tree Blob (DTB) files for specific setups.

## Document information

Information	Content
Keywords	GoPoint, Linux demo, i.MX demos, MPU, ML, machine learning, multimedia, ELE, GoPoint for i.MX Applications Processors, i.MX Applications Processors
Abstract	This document explains how to run GoPoint for i.MX Applications Processors and details about the applications included in the launcher.

## Introduction

GoPoint for i.MX Applications Processors is a user-friendly application that allows the user to launch preselected demonstrations included in the NXP provided Linux Board Support Package (BSP).

GoPoint for i.MX Applications Processors is for users who are interested in showcasing the various features and capabilities of NXP provided SoCs. The demos included in this application are meant to be easy to run for users of all skill levels, making complex use cases accessible to anyone. Users need some knowledge when setting up equipment on Evaluation Kits (EVKs), such as changing Device Tree Blob (DTB) files.

This user guide is intended for end users of GoPoint for i.MX Applications Processors. This document explains how to run GoPoint for i.MX Applications Processors and covers the applications included in the launcher.

## Release information

GoPoint for i.MX Applications Processors is compatible with the i.MX family Linux BSP available at IMXLINUX. GoPoint for i.MX Applications Processors and its included applications that are packaged alongside with it are included in binary demo files displayed on IMXLINUX.

Alternatively, users can include the GoPoint for i.MX Applications Processors and its applications, by including “packagegroup-imx-gopoint” in their Yocto images. This package is included in the “imx-full-image” package when the “fsl-imx-xwayland” distribution is selected on supported devices.

This document only covers information that is related to the Linux 6.12.3\_1.0.0 release. For other releases, see the respective user guide for that release.

## Supported devices

GoPoint for i.MX Applications Processors is supported on the devices listed in Table 1.

**Table 1.** Supported devices

i.MX 7 family	i.MX 8 family	i.MX 9 family
i.MX 7ULP EVK	i.MX 8MQ EVK	i.MX 93 EVK
	i.MX 8MM EVK	i.MX 95 EVK
	i.MX 8MN EVK	
	i.MX 8QXPC0 MEK	
	i.MX 8QM MEK	
	i.MX 8MP EVK	
	i.MX 8ULP EVL	

For information about the i.MX-based FRDM development boards and ports, see <https://github.com/nxp-imx-support/meta-imx-frdm/blob/lf-6.6.36-2.1.0/README.md>.

## GoPoint applications release package

Table 2 and Table 3 list packages included in the GoPoint for i.MX Applications Processors release package. The specific applications vary between releases.

**Table 2.** GoPoint framework

Name	Branch
<a href="#">nxp-demo-experience</a>	lf-6.12.3_1.0.0

<a href="#">meta-nxp-demo-experience</a>	styhead-6.12.3-1.0.0
<a href="#">nxp-demo-experience-assets</a>	lf-6.12.3_1.0.0

**Table 3.** Application package dependencies

Name	Branch/Commit
<a href="#">nxp-demo-experience-demos-list</a>	lf-6.12.3_1.0.0
<a href="#">imx-ebike-vit</a>	6c5917c8afa70ed0ac832184f6b8e289cb740905
<a href="#">imx-ele-demo</a>	2134feef0c7a89b02664c97b5083c6a47094b85
<a href="#">nxp-nnstreamer-examples</a>	5d9a7a674e5269708f657e5f3bbec206fb512349
<a href="#">imx-smart-fitness</a>	5ac9a93c6c651e97278dffc0e2b979b3a6e16475
<a href="#">smart-kitchen</a>	1f42aceae2e79f4b5c7cd29c169cc3ebd1fce78a
<a href="#">imx-video-to-texture</a>	5d55728b5c562f12fa9ea513fc4be414640eb921
<a href="#">imx-voiceui</a>	5eac64dc0f93c755941770c46d5e315aec523b3d
<a href="#">imx-voiceplayer</a>	ab1304afa7fa4ec4f839bbe0b9c06dadb2a21d25
<a href="#">gtec-demo-framework</a>	1f512be500cecb392b24a154e83f0e7cd4655f3e

imx-gpu-viv	Closed source
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## Applications provided by application packages

For documentation on each application, follow the link related to the application of interest.

**Table 4.** nxp-demo-experience-demos-list

Demo	Supported SoCs
ML Gateway	i.MX 8MM, i.MX 8MP, i.MX 93
<a href="#">Selfie Segmenter</a>	i.MX 8MP, i.MX 93
<a href="#">ML Benchmark</a>	i.MX 8MP, i.MX 93, i.MX 95
Face Recognition	i.MX 8MP
<a href="#">DMS</a>	i.MX 8MP, i.MX 93
<a href="#">LP Baby Cry Detection</a>	i.MX 93
<a href="#">LP KWS Detection</a>	i.MX 93
<a href="#">Video Test</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 93
<a href="#">Camera using VPU</a>	i.MX 8MP
2Way Video Streaming	i.MX 8MM, i.MX 8MP
<a href="#">Multi Cameras Preview</a>	i.MX 8MP
<a href="#">ISP Control</a>	i.MX 8MP

Video Dump	i.MX 8MP
Audio Record	i.MX 7ULP
Audio Play	i.MX 7ULP
TSN 802.1Qbv	i.MX 8MM, i.MX 8MP

**Table 5.** imx-ebike-vit

Demo	Supported SoCs
<a href="#">E-Bike VIT</a>	i.MX 8MM, i.MX 8MP, i.MX 93

**Table 6.** imx-ele-demo

Demo	Supported SoCs
<a href="#">EdgeLock Secure Enclave</a>	i.MX 93

**Table 7.** nxp-nnstreamer-examples

Demo	Supported SoCs
<a href="#">Image Classification</a>	i.MX 8MM, i.MX 8MP, i.MX 8QMMEK, i.MX 93, i.MX 95
<a href="#">Object Detection</a>	i.MX 8MM, i.MX 8MP, i.MX 8QMMEK, i.MX 93, i.MX 95
<a href="#">Pose Estimation</a>	i.MX 8MM, i.MX 8MP, i.MX 8QMMEK, i.MX 93, i.MX 95

**Table 8.** imx-smart-fitness

Demo	Supported SoCs
<a href="#">i.MX Smart Fitness</a>	i.MX 8MP, i.MX 93

**Table 9.** smart-kitchen

Demo	Supported SoCs
<a href="#">Smart Kitchen</a>	i.MX 8MM, i.MX 8MP, i.MX 93

**Table 10.** imx-video-to-texture

Demo	Supported SoCs
<a href="#">Video To Texture Demo</a>	i.MX 8QMMEK, i.MX 95

**Table 11.** imx-voiceui

Demo	Supported SoCs
i.MX Voice Control	i.MX 8MM, i.MX 8MP

**Table 12.** imx-voiceplayer

Demo	Supported SoCs
<a href="#">i.MX Multimedia Player</a>	i.MX 8MM, i.MX 8MP, i.MX 93

**Table 13.** gtec-demo-framework

Demo	Supported SoCs
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<a href="#">Bloom</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 95
<a href="#">Blur</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">EightLayerBlend</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">FractalShader</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">LineBuilder101</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">Model Loader</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95

<a href="#">S03_Transform</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">S04_Projection</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">S06_Texturing</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">Mapping</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95
<a href="#">Mapping Refraction</a>	i.MX 7ULP, i.MX 8MQ, i.MX 8MM, i.MX 8MN, i.MX 8QXPC0MEK, i.MX 8QMMEK, i.MX 8MP, i.MX 8ULP, i.MX 95

**Table 14.** imx-gpu-viv

<b>Demo</b>	<b>Supported SoCs</b>
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Vivante Launcher	i.MX 7ULP, i.MX 8QXPC0MEK, i.MX 8QM MEK, i.MX 8MP, i.MX 8ULP
Cover Flow	i.MX 7ULP, i.MX 8ULP
Vivante Tutorial	i.MX 7ULP, i.MX 8ULP

## Changes in this release

- Bumped recipes to pick the latest software release

## Known issues and workarounds

- MIPI-CSI cameras no longer work by default. For more information on how to start, see “chapter 7.3.8” in i.MX Linux User’s Guide (document IMXLUG).

## Launching applications

Applications that are included in GoPoint for i.MX Applications Processors can be launched via various interfaces.

### Graphical user interface

On boards where GoPoint for i.MX Applications Processors is available, an NXP logo is displayed on the top left-hand corner of the screen. Users can start the demo launcher by clicking this logo.

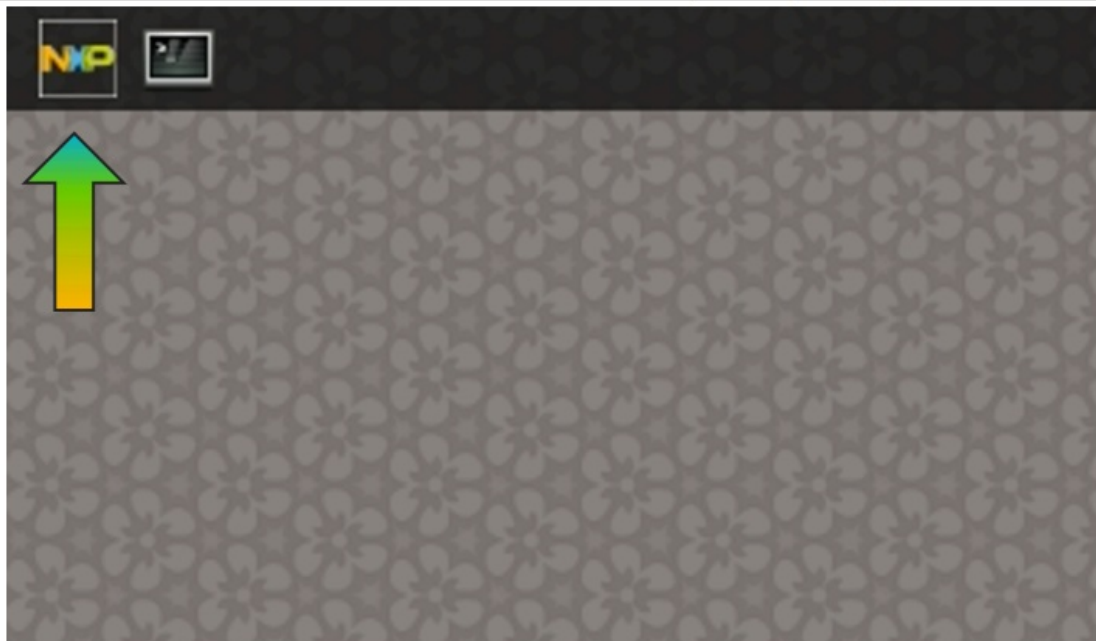


Figure 1. GoPoint for i.MX Applications Processors logo

After opening the program, users can launch demos using the following options shown in Figure 2:

1. To filter the list, select the icon on the left to expand the filter menu. From this menu, users can select a category or subcategory that filters the demos displayed in the launcher.
2. A scrollable list of all the demos supported on that EVK appears in this area with any filters applied. Clicking a demo in the launcher brings up information about the demo.
3. This area displays the names, categories, and description of the demos.
4. Clicking Launch Demo launches the currently selected demo. A demo can then be force-quit by clicking the Stop current demo button in the launcher (appears once a demo is started).

**Note:** Only one demo can be launched at a time.

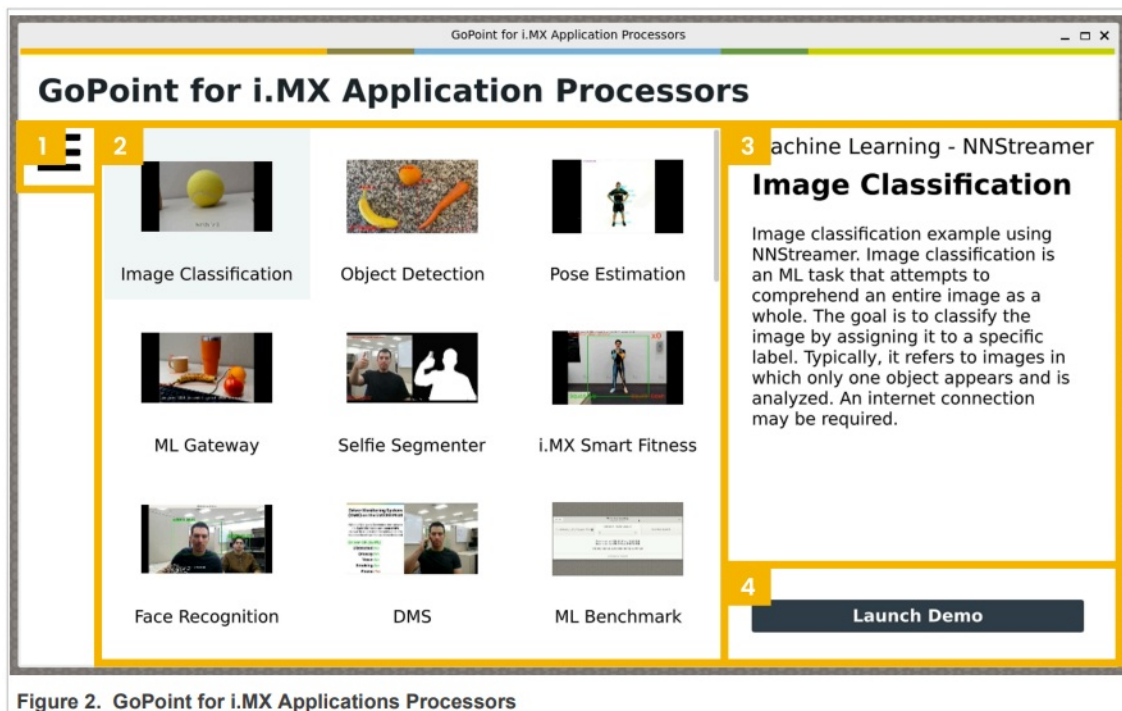


Figure 2. GoPoint for i.MX Applications Processors

## Text user interface

Demos can also be launched from the command line through log-in into the board remotely or using the onboard serial debug console. Remember that most demos still require a display to run successfully.

**Note:** If prompted for a login, the default user name is “root” and no password is required.

To start the text user interface (TUI), type the following command into the command line:

```
# gopoint tui
```

The interface can be navigated using the following keyboard inputs:

- Up and down arrow keys: Select a demo from the list on the left
- Enter key: Runs the selected demo
- Q key or Ctrl+C keys: Quit the interface
- H key: Opens the help menu

Demos can be closed by closing the demo onscreen or pressing the “Ctrl” and “C” keys at the same time.

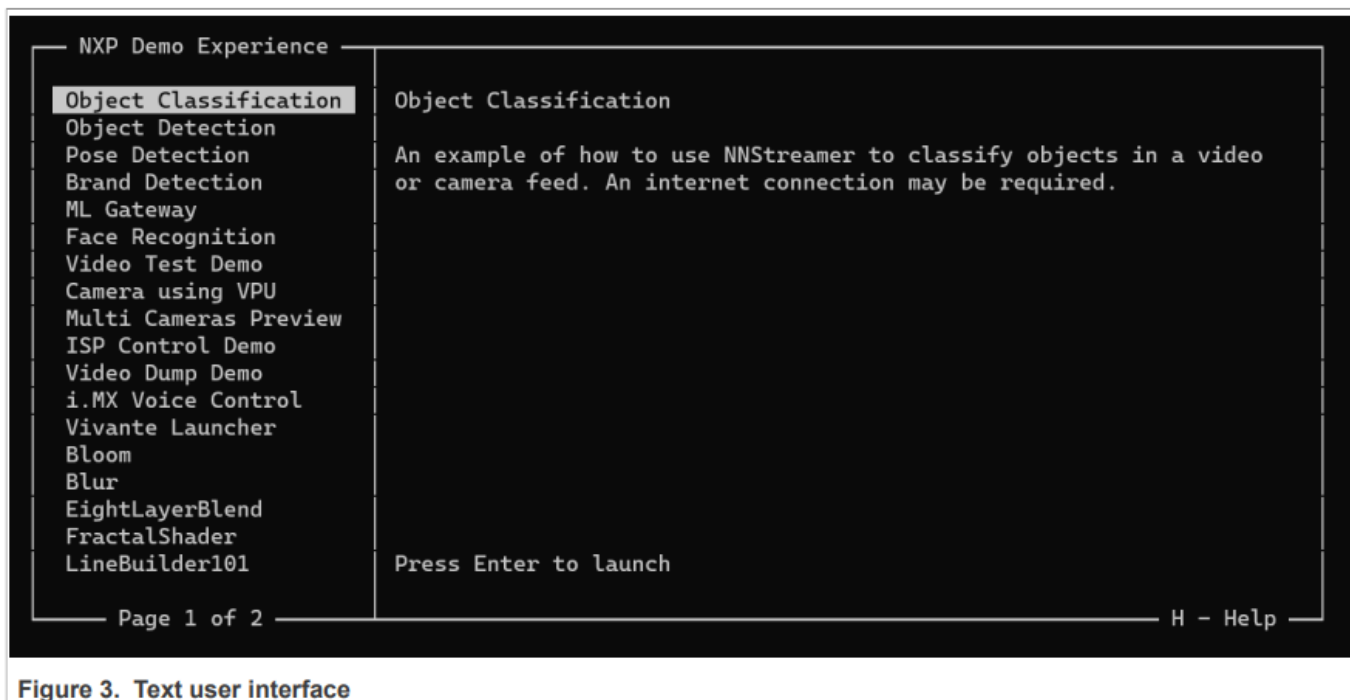


Figure 3. Text user interface

## References

The references used to supplement this document are as follows:

- 8-microphone array board: 8MIC-RPI-MX8
- Embedded Linux for i.MX Applications Processors: IMXLINUX
- i.MX Yocto Project User Guide (document IMXLXYOCTOUG)
- i.MX Linux User's Guide (document IMXLUG)
- i.MX 8MIC-RPI-MX8 Board Quick Start Guide (document IMX-8MIC-QSG)
- i.MX 8M Plus Gateway for Machine Learning Inference Acceleration (document AN13650)
- TSN 802.1Qbv Demonstration using i.MX 8M Plus (document AN13995)

## Source Code Document

### Note about the source code in the document

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## Revision history

Table 15 summarizes the revisions to this document.

**Table 15.** Revision history

Revision number	Release date	Description
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GPNTUG v.11.0	11 April 2025	<ul style="list-style-type: none"> <li>• Updated <a href="#">Section 1 “Introduction”</a></li> <li>• Added <a href="#">Section 2 “Release information”</a></li> <li>• Updated <a href="#">Section 3 “Launching applications”</a></li> <li>• Updated <a href="#">Section 4 “References”</a></li> </ul>
GPNTUG v.10.0	30 September 2024	<ul style="list-style-type: none"> <li>• Added <a href="#">i.MX E-Bike VIT</a></li> <li>• Updated <a href="#">References</a></li> </ul>
GPNTUG v.9.0	8 July 2024	<ul style="list-style-type: none"> <li>• Added <a href="#">Security</a></li> </ul>
GPNTUG v.8.0	11 April 2024	<ul style="list-style-type: none"> <li>• Updated <a href="#">NNStreamer demos</a></li> <li>• Updated <a href="#">Object classification</a></li> <li>• Updated <a href="#">Object detection</a></li> <li>• Removed section “Brand detection”</li> <li>• Updated <a href="#">Machine learning gateway</a></li> <li>• Updated <a href="#">Driver monitoring system demo</a></li> <li>• Updated <a href="#">Selfie segmenter</a></li> <li>• Added <a href="#">i.MX smart fitness</a></li> <li>• Added <a href="#">Low-power machine learning demo</a></li> </ul>



GPNTUG v.7.0	15 December 2023	<ul style="list-style-type: none"> <li>• Updated for the 6.1.55_2.2.0 release</li> <li>• Rename from NXP Demo Experience to GoPoint for i.MX Applications Processors</li> <li>• Added <a href="#">2Way video streaming</a></li> </ul>
GPNTUG v.6.0	30 October 2023	Updated for the 6.1.36_2.1.0 release
GPNTUG v.5.0	22 August 2023	Added <a href="#">i.MX multimedia player</a>
GPNTUG v.4.0	28 June 2023	Added <a href="#">TSN 802.1 Qbv demo</a>
GPNTUG v.3.0	07 December 2022	Updated for 5.15.71 release
GPNTUG v.2.0	16 September 2022	Updated for 5.15.52 release
GPNTUG v.1.0	24 June 2022	Initial release

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Document feedback

Date of release: 11 April 2025

Document identifier: GPNTUG

## Frequently Asked Questions

What devices are supported by GoPoint for i.MX Applications Processors?

Supported devices include i.MX 7, i.MX 8, and i.MX 9 families. Refer to the user guide for the complete list.

How can I access the demos included in GoPoint?

Simply launch the GoPoint application on your device to access and run the preselected demonstrations.


Is GoPoint suitable for users of all skill levels?

Yes, the demos included in GoPoint are designed to be easy to run, making them accessible to users of varying skill levels.

Where can I find more information about specific applications included in GoPoint?

Check the respective user guide for detailed information about the applications included in each release package.

## Documents / Resources

	<a href="#">NXP GPNTUG Processor Camera Module [pdf]</a> User Guide GPNTUG Processor Camera Module, Processor Camera Module, Camera Module
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## References

- [User Manual](#)

 Camera Module, GPNTUG Processor Camera Module, NXP, Processor Camera

 NXP Module

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