

# RN00424

## Robotics Edge Platform Release Notes

Rev. 1.0 — 22 April 2026

Release notes

### Document information

Information	Content
Keywords	RN00424, Robotics Edge Platform, NXP hardware platforms, packages, demos, visual slam (vSLAM), robotics arm (RoARM)
Abstract	The Robotics Edge Platform is a unified solution for robotics development at the Edge that NXP provides. This release notes document introduces the features, demos, and supported hardware platforms of the Robotics Edge Platform.



## 1 Overview

The **Robotics Edge Platform v1.0.0** is NXP's unified solution for robotics development at the edge, combining ROS 2 Jazzy with real time Edge capabilities and industrial protocols for i.MX processors.

## 2 What's New

### 2.1 Key features

#### ROS 2 packages:

- Core: rclcpp, rclpy, ros2cli, ament
- Navigation: navigation2, moveit2 with Servo and Task Constructor
- SLAM: orb\_slam3, NXP-optimized vSLAM (imx-hc-slam, imx-mv)
- Vision: image\_pipeline, vision\_opencv, realsense2\_camera
- Audio: ros\_gst\_bridge

### 2.2 System components

- **Linux Kernel:** 6.12.34 with PREEMPT-RT support
- **Real-Time Edge:** v3.3
- **Yocto Project:** v5.2 (Walnascar)
- **ROS 2:** Jazzy Jalisco distribution

### 2.3 Supported hardware

- [FRDM-IMX8MP](#)
- [i.MX 8MP EVK](#)
- [i.MX 95 EVK 19x19](#)
- [i.MX 95 EVK 15x15](#)

### 2.4 Example applications

- [Robotic ARM](#)
- [Visual SLAM](#)

## 3 Known Issues and Limitations

The table below lists the known issues and limitations for this release.

Issue ID	Description	Opened In	Workaround
None	-	-	-

## 4 Revision History

The table below lists the revisions to this document.

Document ID	Release date	Description
RN00424 v.1.0	22 April 2026	First public release

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