



# **i.MX 8M Mini/Nano Development Kit**

## **Product Change Notification**

### **Hardware Documentation**

Beacon EmbeddedWorks

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## Revision History

REV	EDITOR	DESCRIPTION	APPROVAL	DATE
A	JMC	-Initial release	JMC,BSB	09/12/23



## Table of Contents

<b>1. i.MX 8M Mini/Nano Development Kit PCN Introduction .....</b>	<b>1</b>
1.1 Purpose of Document .....	1
1.2 Relationship with Errata Document.....	1
1.3 Identifying Your Kit.....	1
<b>2. Initial Production Kit: SDK-IMX8MMQ-10-2G32GR-A.....</b>	<b>2</b>
2.1 Kit Contents .....	2
2.1.1 Included PCB Assemblies .....	2
2.1.2 Software Contents .....	2
<b>3. PCN 637: Changes for SDK-IMX8MMQ-11-2G32GR-A .....</b>	<b>3</b>
3.1 Products Affected .....	3
3.2 Kit Contents .....	3
3.2.1 Included PCB Assemblies .....	3
3.2.2 Software Contents .....	3
3.3 Description of Changes.....	4
3.3.1 SOM Model Change .....	4
3.3.2 Baseboard Change.....	4
3.3.3 SD Card Contents Change .....	4
3.4 Contact .....	4



# 1. i.MX 8M Mini/Nano Development Kit PCN Introduction

## 1.1 Purpose of Document

The purpose of this document is to provide a single repository for explaining design changes to the i.MX 8M Mini/Nano Development Kit. These changes may include, but are not limited to, adding or removing items from the kit contents, detailing changes to any boards included in the kit, and specifying the i.MX 8M Mini/Nano SOM model revision included in the kit.

## 1.2 Relationship with Errata Document

This PCN document works in conjunction with the [i.MX 8M Development Kit Errata](#)<sup>1</sup> to describe all known issues and changes to the i.MX 8M Development Kit. Whereas the errata document provides information about known issues that have not yet been resolved through new hardware, the PCN only describes changes that have occurred to the product between model revisions.

## 1.3 Identifying Your Kit

To identify your kit, locate the label on the side panel of the development kit box. This label will show the model number of your development kit as indicated in the example.



<sup>1</sup> <https://support.logicpd.com/DesktopModules/Bring2mind/DMX/Download.aspx?portalid=0&EntryId=3334>



## 2. Initial Production Kit: SDK-IMX8MMQ-10-2G32GR-A

The initial version of the i.MX8 Mini/Nano Development kit was released with the following model number:

SDK-IMX8MMQ-10-2G32GR-A

### 2.1 Kit Contents

#### 2.1.1 Included PCB Assemblies

The SDK-IMX8MMQ-10-2G32GR-A revision of the i.MX8 Mini/Nano Development Kit contains the hardware components listed in the following table. The assembly part number or model number helps to identify the specific boards; these numbers are indicated by labels attached to each PCB.

Item	Assembly Part Number or Model Number
i.MX 8M Mini SOM	SOMIMX8MMQ-10-2AE4SMCR-A
i.MX 8M Mini/Nano Baseboard	1030999

#### 2.1.2 Software Contents

The SDK-IMX8MMQ-10-2G32GR-A revision of the i.MX8 Mini/Nano Development Kit contains the following software items:

Item	Assembly Part Number
SD Card with Linux Image, i.MX 8M Mini 1.0-0 Release	1031126



### 3. PCN 637: Changes for SDK-IMX8MMQ-11-2G32GR-A

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PCN Classification:

- ☐ A - Recall
- ☐ B - Customer Action Required
- ☒ C - Product Upgrade
- ☐ D - Change of Production Line

#### 3.1 Products Affected

This PCN describes the changes that were made to the i.MX 8M Mini/Nano Development Kit. The “New Model Number & Rev” listed below indicates the development kit that will be manufactured with the changes described in sections 3.2 and 3.3 below.

Affected Model Number & Rev (Part Number)	New Model Number & Rev (Part Number)
SDK-IMX8MMQ-10-2G32GR-A (1031025)	SDK-IMX8MMQ-11-2G32GR-A (1031671)

#### 3.2 Kit Contents

##### 3.2.1 Included PCB Assemblies

The SDK-IMX8MMQ-11-2G32GR-A revision of the i.MX8 Mini/Nano Development Kit contains the hardware components listed in the following table. The assembly part number or model number helps to identify the specific boards; these numbers are indicated by labels attached to each PCB.

Item	Assembly Part Number or Model Number
i.MX 8M Mini SOM	SOMIMX8MMQ-11-2AE4SMCR-A
i.MX 8M Mini/Nano Baseboard	1031683

##### 3.2.2 Software Contents

The SDK-IMX8MMQ-11-2G32GR-A revision of the i.MX8 Mini/Nano Development Kit contains the following software items:

Item	Assembly Part Number
SD Card with Linux Image, i.MX 8M Mini 2.0-1 Release	1031824



## 3.3 Description of Changes

### 3.3.1 SOM Model Change

The i.MX 8M Mini SOM included in the development kit was updated to the most recent model number revision SOMIMX8MMQ-11-2AE4SMCR-A. Please see PCN 636 in the [i.MX 8M Mini/Nano SOM Product Change Notification](#)<sup>2</sup> for a detailed list of changes.

### 3.3.2 Baseboard Change

The baseboard included in the development kit was updated to be compatible with the Ethernet changes made to the SOM assembly. Specifically, the Ethernet Jack (J77) was changed to match the magnetic requirements of the updated SOM.

### 3.3.3 SD Card Contents Change

This SD card included in the development kit was updated to contain the latest Linux BSP version 2.0-1. This BSP update adds support for the Ethernet transceiver change introduced in the SOM update.

## 3.4 Contact

For additional information, please post a question to the Beacon EmbeddedWorks [Technical Discussion Group \(TDG\) forum](#).<sup>3</sup>

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<sup>2</sup> <https://support.beaconembedded.com/DesktopModules/Bring2mind/DMX/Download.aspx?portalid=0&EntryId=3388>

<sup>3</sup> <https://support.beaconembedded.com/TechnicalSupport.aspx>

