

**Android Pie Release Note**

**VER. 2.00**

**July 30, 2019**

**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Originator** | **Notes** |
| 1.00 | March 30, 2019 | TechNexion | tn-p9.0.0\_1.0.0\_8m-ga  First public release |
| 2.00 | July 30, 2019 | TechNexion | tn-p9.0.0\_2.0.0\_8m-ga  First public release |

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# 1. Overview

## 1.1 Supported Hardware

Following Android Pie distribution is provided for Technexion platforms:

* PICO-IMX8M
  + PI baseboard
* PICO-IMX8MM
  + PI baseboard
* FLEX-IMX8MM
  + PI baseboard

Each hardware has its own different functions and features, please refer the specifications first from Technexion official website if possible.

## 1.2 Package Content

The tn-p9.0.0\_2.0.0\_8m-ga release package includes the following software and documents:

* Release Notes
* User Manual
* Prebuilt Image
* Installation Tools

# 2. Hardware Functions

|  |  |  |
| --- | --- | --- |
| Model | PICO-IMX8M with PI baseboard | Remarks |

|  |  |  |
| --- | --- | --- |
| CPU | PASS |  |
| DRAM | PASS | Support 1G, 2G, and 4G size. |
| WiFi | PASS |  |
| Bluetooth | PASS |  |
| eMMC | PASS |  |
| USB Host port | PASS |  |
| USB OTG port | PASS |  |
| Micro USB port | PASS |  |
| HDMI | PASS | FHD working perfect. |
| Ethernet | PASS |  |
| MiPi CSI-1 | PASS |  |
| MiPi CSI-2 | PASS |  |
| MiPi DSI LCD | PASS | 5 inch ili9881c panel |
| UART | PASS |  |
| Audio-HAT | PASS |  |

Table 1: PICO-IMX8M with PI baseboard

|  |  |  |
| --- | --- | --- |
| Model | PICO-IMX8MM with PI baseboard | Remarks |

|  |  |  |
| --- | --- | --- |
| CPU | PASS |  |
| DRAM | PASS | Support 1G, 2G, and 4G size. |
| WiFi | PASS |  |
| Bluetooth | PASS |  |
| eMMC | PASS |  |
| USB Host port | PASS |  |
| USB OTG port | PASS |  |
| Micro USB port | PASS |  |
| Ethernet | PASS |  |
| MiPi CSI-1 | PASS |  |
| MiPi DSI LCD | PASS | 5 inch ili9881c panel |
| UART | PASS |  |
| Audio-HAT | PASS |  |

Table 2: PICO-IMX8MM with PI baseboard

|  |  |  |
| --- | --- | --- |
| Model | FLEX-IMX8MM with PI baseboard | Remarks |

|  |  |  |
| --- | --- | --- |
| CPU | PASS |  |
| DRAM | PASS | Support 1G, 2G, and 4G size. |
| WiFi | PASS |  |
| Bluetooth | PASS |  |
| eMMC | PASS |  |
| USB Host port | PASS |  |
| USB OTG port | PASS |  |
| Micro USB port | PASS |  |
| Ethernet | PASS |  |
| uSD slot | PASS |  |
| MiPi CSI-1 | PASS |  |
| MiPi DSI LCD | PASS | 5 inch ili9881c panel |
| UART | PASS |  |
| Audio-HAT | PASS |  |

Table 3: FLEX-IMX8MM with PI baseboard

# 3. Software Features

* tn-p9.0.0\_2.0.0\_8m-ga
  + Platforms
    - 64-bit
  + UI
    - Graphic-HW
    - Graphic-HW 3D acceleration
  + Networking
    - Ethernet
    - WiFi station mode and AP mode
    - Bluetooth LE
  + Multimedia
    - Auto switch of Audio port: Audio-HAT, USB-Audio and HDMI-audio
    - Auto detection of Dual Camera: two mipi camera or one mipi camera and one UVC USB camera
    - Audio-HAT fully support
  + Utility tools
    - Libgpiod
    - I2ctools
    - Can-utils
  + Applications
    - Termux
    - Uart-Test
  + Treble
    - A/B system
    - OTA Upgrade
    - ADB
    - Fastboot

# 4. Known Issues

The known issues about the hardware and hardware rework instructions are not included in this document.

**tn-p9.0.0\_2.0.0\_8m-ga: No known hardware issues**

**tn-p9.0.0\_1.0.0\_8m-ga:**

|  |  |
| --- | --- |
| Model | PICO-IMX8M with PI baseboard |

|  |  |  |
| --- | --- | --- |
| **Items** | **Issue description** | **Status** |
| 1 | Dual mipi camera is not stable in Camera app failed when switching front camera and rear camera. | WIP |
| 2 | ILI9881C 5-inch panel is not stable, sometimes appear flicking, wrong color display | WIP |