TechNexion
INNOVATORS OF TECHNOLOGY

Android Pie Release Note

VER. 2.20
December 20, 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
2.10	September 20, 2019	TechNexion	tn-p9.0.0_2.0.1_8m-ga tn-p9.0.0_2.2.0-ga First public release
2.20	December 20, 2019	TechNexion	tn-p9.0.0_2.0.1_8m-ga_tn2.0 tn-p9.0.0_2.2.0-ga_tn2.0 public release

Table of Contents

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
- EDMI-MX8M
  - WIZARD baseboard REV A1 (Please adapt tn1.0 revision for REV02)
- PICO-IMX6
  - NYMPH baseboard
  - PI baseboard
- PICO-IMX7
  - NYMPH baseboard
  - PI baseboard REV B1
- EDM-IMX6
  - FAIRY baseboard
- TC0700 HMI
- TC1000 HMI
- TEP-1010 HMI
- TEP-1560 HMI
- TEP1-IMX7 HMI

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 release package includes the following software and documents:

- Release Notes
- User Manual
- Prebuilt Image
- Installation Tools
- README file

2. Software Difference

Following Android Pie distribution is provided for Technexion platforms:

- IMX8 series:
  - tn-p9.0.0_2.0.1_8m-ga_tn2.0:
    1. Improve performance from GPU drivers
    2. Fix 4GB DDR memory only shows 3GB DDR memory information issue
    3. Speed up the boot time
    4. LIBGPIOD JNI Test APP
    5. Openssh, ethtool support
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  - tn-p9.0.0_2.0.1_8m-ga_tn1.0:
    1. Add EDM-IMX8M support
    2. Increase BT speed to 3Mbps
    3. Dual Camera support
    4. A2DP audio function support
  - tn-p9.0.0_2.0.0_8m-ga:
    1. Add PICO-IMX8MM support
    2. Add FLEX-IMX8MM support
    3. Fix camera switch hang issue on two camera case
    4. Add 5" ILI9881C MIPI panel support
  - tn-p9.0.0_1.0.0_8m-ga:
    First release

- IMX6/IMX7 series:
  - tn-p9.0.0_2.2.0-ga_tn2.0:
    1. Add EDM-IMX6, TC0700, TC1000, TEP5-IMX6, TEP1-IMX7 platforms
    2. Add A2DP audio function support
    3. Increase BT speed to 3Mbps
    4. Add QCA9377-5 mPCIE WiFi and USB BT support
    5. LIBGPIOD JNI Test APP
  - tn-p9.0.0_2.2.0-ga_tn1.0:
    First release

4. Known Issues

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

tn-p9.0.0_2.0.1_8m-ga_tn2.0: No known hardware issues
tn-p9.0.0_2.2.0-ga_tn2.0: No known hardware issues

tn-p9.0.0_2.0.1_8m-ga_tn1.0: No known hardware issues

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