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