MiTAC I.MX8M Product Series

ME1-108T / ND108T

Linux BSP User Guide

For MiTAC I.MX8M series product (Box PC: ME1-108T, MB: ND108T), MiTAC provides the following Linux BSP (Board support Package) software for developer to develop your targeting Linux OS. These BSPs with source code are customizable, allowing the developers to specify which drivers and routines should be included in the build based on your targeting Linux version and software options.

Moreover, the BSP also contain a pre-compiled binaries image for Yocto and Android which can let developer to have quick try or install for demo purpose. The source code of these pre-compiled images are also provided and developers can base on it to further develop your preferred UI, new device drivers and field applications to build up your final Yocto and Android OS.

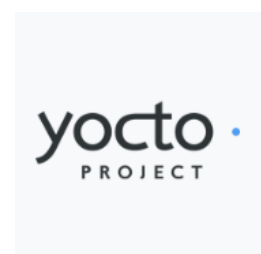## 1. Hardware Quick Installation Guide

In this file, you will know how to quick install the board for your following Linux development, including:
- Know all the board related headers and pin definition
  Know all the board related jumper setting
- How to install the Micro SD card
- How to enter the U-boot

★Please download the installation guide Here

2. BSP for Yocto Sumo

Yocto project is a framework for creating a Linux distributions for embedded devices. It's layering mechanism makes it easy to add Linux to new target devices highly customized for a particular platform; it can include custom start-up scripts, software packages built with a high degree of optimization for a particular architecture, and different user interfaces from full Gnome desktop to a simple a serial console. This release is based on NXP BSP layer for Yocto framework and MiTAC extends this layer to support our I.MX8M product

related functions.

Yocto Sumo (Kernel version 4.14.98) BSP,
including source code and files for:
- Bootloader
- Libraries and header files
- All board function device drivers
- Detailed manual describing installation, all APIs and functions, files and utilities
- Sample Source code with pre-compiled binaries image for testing and demo purpose

★Pls check with our sales team for the download link access.

3. BSP for Android 9

This release is based on NXP BSP layer for Android 9 framework and MiTAC extends this layer to support our I.MX8M product related functions.

Android 9 (Pie, Kernel version 4.14.98) BSP,
including source code and files for:
- Bootloader
- Libraries and header files
- All board function device drivers
- Detailed manual describing installation, all APIs and functions, files and utilities
- Sample Source code with pre-compiled binaries image for testing and demo purpose

    *Note: due to Google CTS (Compatibility Test Suite), the sample image cannot support Google Play for Marketplace function. For this function enabling, developers you may need to contact Google and apply it based on your final developed Android image.

★Pls check with our sales team for the download link access.

4. Customization Support

For other customization items beyond our standard BSP coverage above, please contact our sales window for more business discussion and it will only support by requested. The customization items could be:

- **Yocto and Android sample image customization**
  ex: UI customization, new Android option enable/disable, new App pre-install

- **Other Linux shell support**
  ex: Ubuntu, Debian, RTOS

- **Other Linux kernel version support**
  ex: Android 10, Yocto Legacy version

- **Other peripheral device driver support**
  ex: WiFi card, LTE card, CAN bus card

Remark:

In the BSP documents, there are several Linux Reference Manuals released from NXP. Based on the NXP document using rule, **please help to register on their website below to sign in and get the authority**. You will also be available get more technical related documents or support through your account on their website.

https://www.nxp.com/webapp-signup/register