Genio 700 Evaluation Kit Quick Start Guide

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Version History

Version	Date	Author	Description
0.1	2023-03-08	MTK	Draft Release

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1   Packing list

S.No	Part Number or Marking	Item Name	Description	Quantity
1	IoT-Genio 700 EVK-P1V3	Genio 700 Main Board		1
2	Camera Board (Genio 700-CAM DTB-D1V1-D2)	Camera Board (D2 Version)	Camera sub-board using onsemi AP1302 Image Sensor Processor	1
3	IMX214 Camera Module	Camera Module for D2	Camera Module using SONY IMX214 CMOS Digital Image Sensor, preconnected to AP1302 ISP Camera Board	1
4	With Touch Panel and FFC cable	7" LCD Panel	LCM Module	1
5	M.2 WIFI6 Module AW-XB468NF (IC: MT7921L)	WIFI Module		1
6		WIFI Antenna		2
7		WIFI Antenna Cable		2
8		12V AC adaptor		1
9		AC Power cord		1

Table 1-1. Packing List

2 Genio 700 EVK System Setup

Please refer below pictures for entire assembled Genio 700 EVK, the entire peripherals include:

1: LCD Module with Touch Panel * 1 set

2: D2 Camera board with IMX214 Camera module

3: Connectivity module with 2 antennas * 1 set

4: Power Adapter * 1 set

Figure 2-1. Genio 700 EVK System

3   Genio 700-EVK Board overview

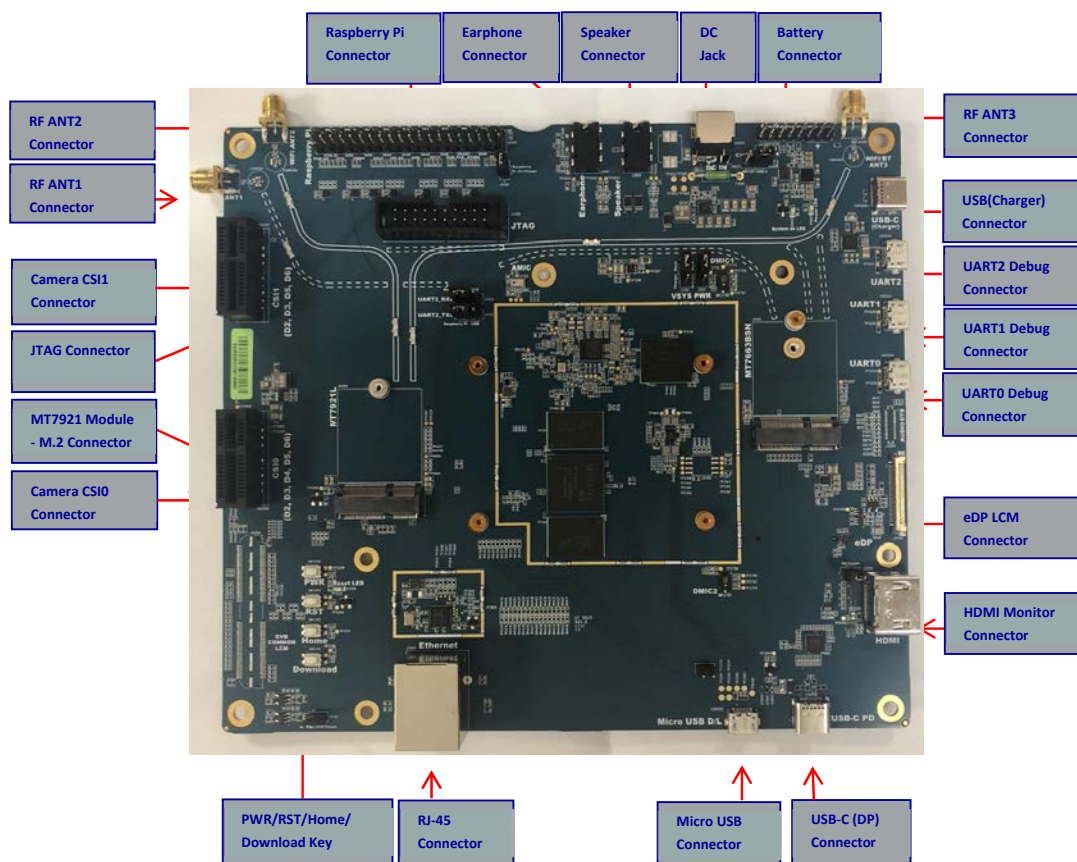Please refer below picture for IO function overview of EVK.

Figure 3-1. Genio 700 EVK Board Overview

4   LCM Holder Setup

LCM Holder set up :

Use your hand to turn the screw plastic head

Move the LCD to need a location and twist the screw plastic head tight, as in the picture below.
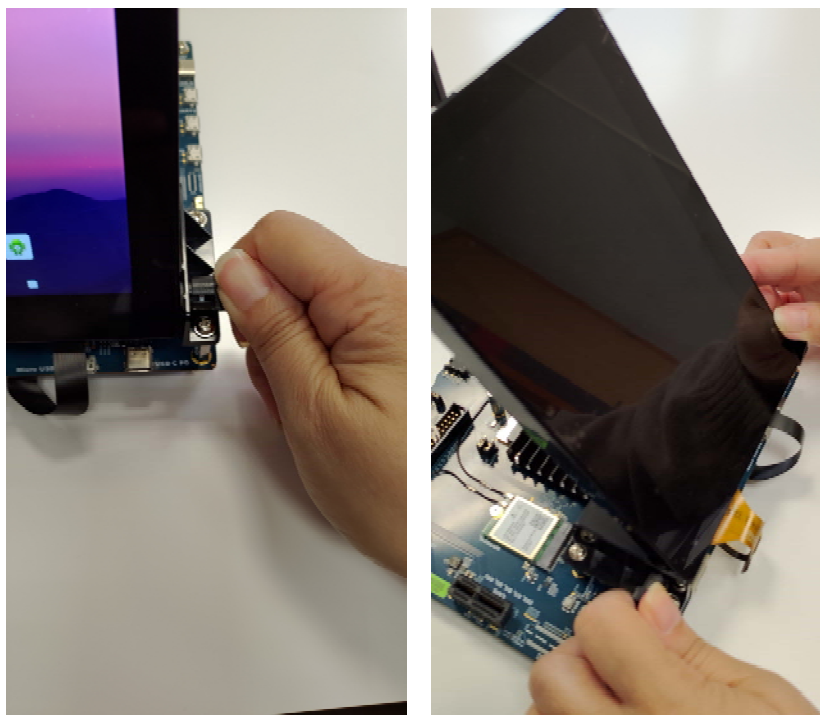

Figure 4-1. LCM Holder Setup

5   Camera DTB board installation

D2 camera install procedure:

Install D2 Camera board into Genio 700 EVK mainboard. Connecter location can be referred to in the picture below.
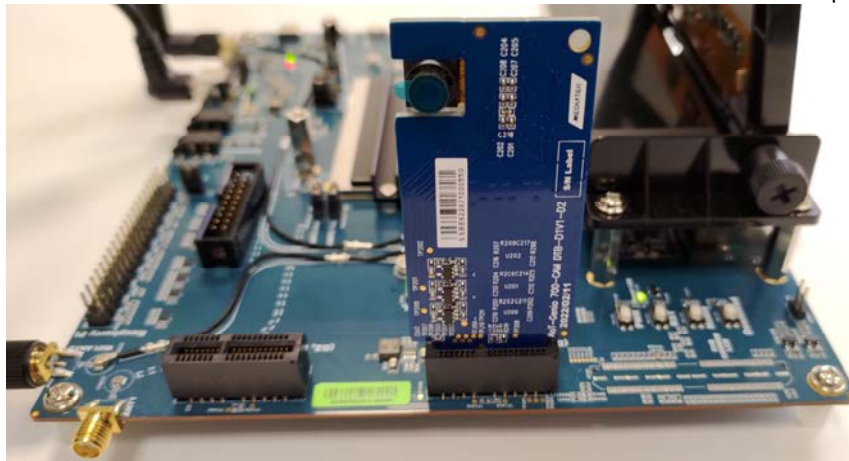

Figure 5-1. D2 Camera DTB board

6   How to Power Up the Genio 700 EVK

1. **<u>You must install the Camera DTB on the Genio 700 EVK board.</u>**
2. Connect UART0 (CN3200) to the computer via an USB cable. (If you want to see the logs.)
3. Power on the system by long pressing Power Key for 4 seconds or Plug a Jumper at J3001 and Auto power on by plug in of AC adaptor.
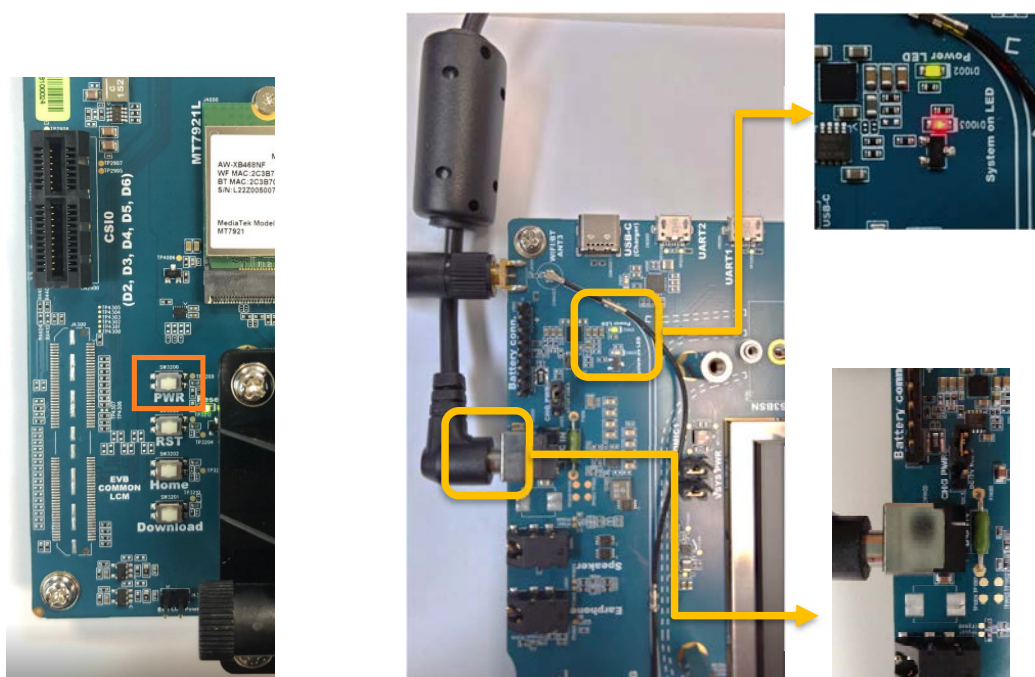4. You will see the boot-up picture on LCD display and trace logs come out from UART0.

Figure 6-1. Plug AC Adapter , Press Power Key and LEDs Status

⚠ After the EVK power on, pay attention to the LED indicator is lighted on.
In normal conditions, there are total 2 LED indicators that will light
Please refer to the marks of above Figure1-2