Genio 1200 Evaluation Kit Quick Start Guide

Version: 0.2

Release date: 2023-05-25

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Version History

Version	Date	Author	Description
0.1	2023-05-09	MediaTek	Draft Release
0.2	2023-05-25	MediaTek	Update Figure 3-1, Figure 3-2

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1   Packing List

Table 1-1 Genio 1200 EVK Packing List

S.No	Part Number or Marketing	Item Name	Description	Quantity
1	Genio 1200 EVK-P1V2	Genio 1200 EVK Main Board		1
2	IoT-CAM-DTB -D1V2-D2	D2 Camera Board	Camera Daughter Board Using IMX214 Image Sensor	1
3	IoT-CAM-DTB-D1V3-D6	D6 Camera Board	Camera Daughter Board Using AR0830 Image Sensor	1
4	KD070FHFID078-01-C021A	7" LCD Panel	LCM Module	1
5	M.2 Wi-Fi 6 module AW-XB468NF (IC: MT7921L)	Wi-Fi Module	Installed	1
6	IPEX to IPEX cable-158mm		Installed on Mainboard	1
7	IPEX to IPEX cable-50mm		Installed on Mainboard	1
8	SMA antenna	Wi-Fi Antenna		2
9	12V AC adaptor + power cord			1

4

2   Genio 1200 EVK System Setup

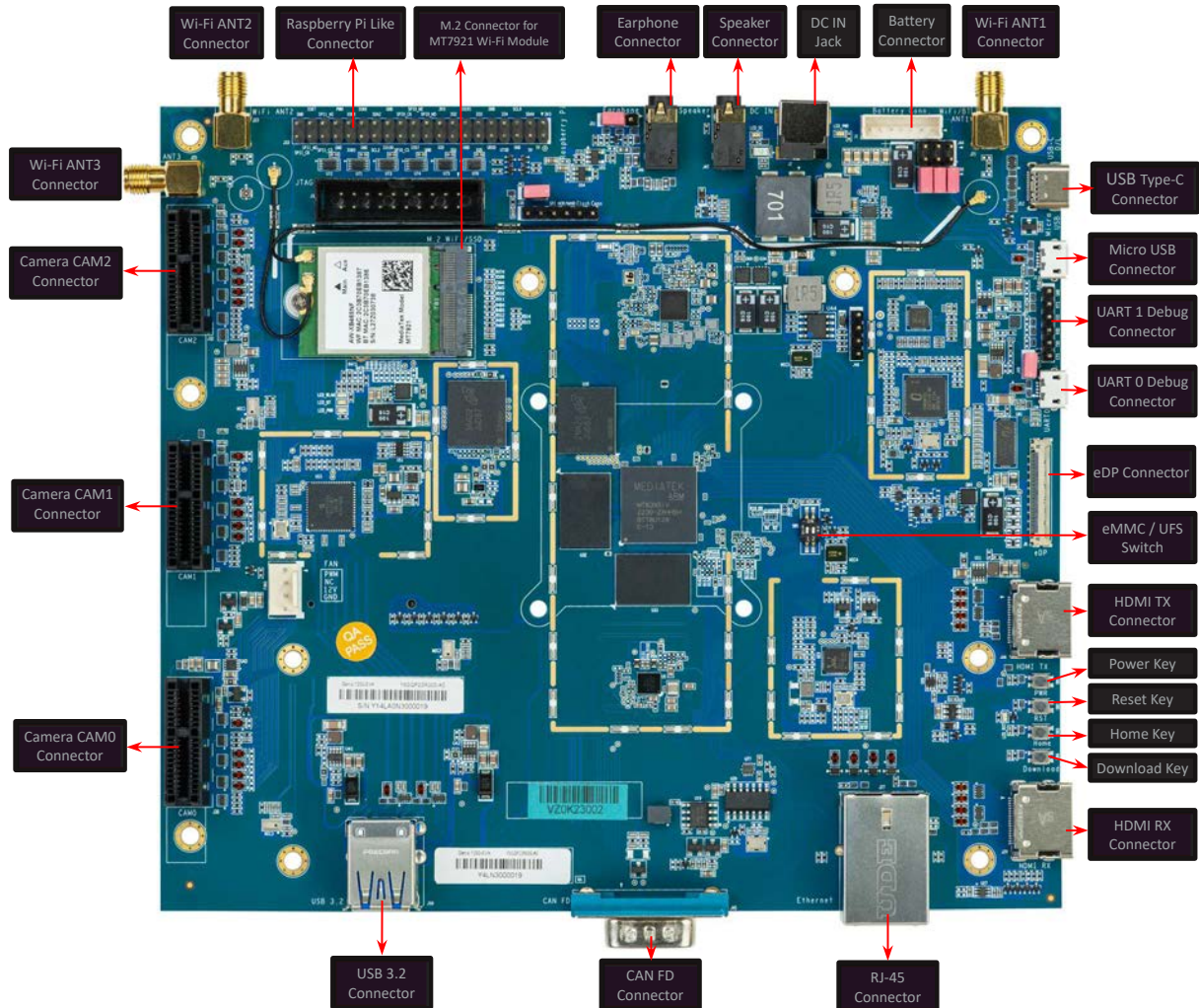The Genio 1200 EVK, the entire peripherals include:

      1: LCM module with touch panel (installed)

      2: D2 camera daughter board

      3: D6 camera daughter board

      4: Wi-Fi module (installed) with 2 antennas

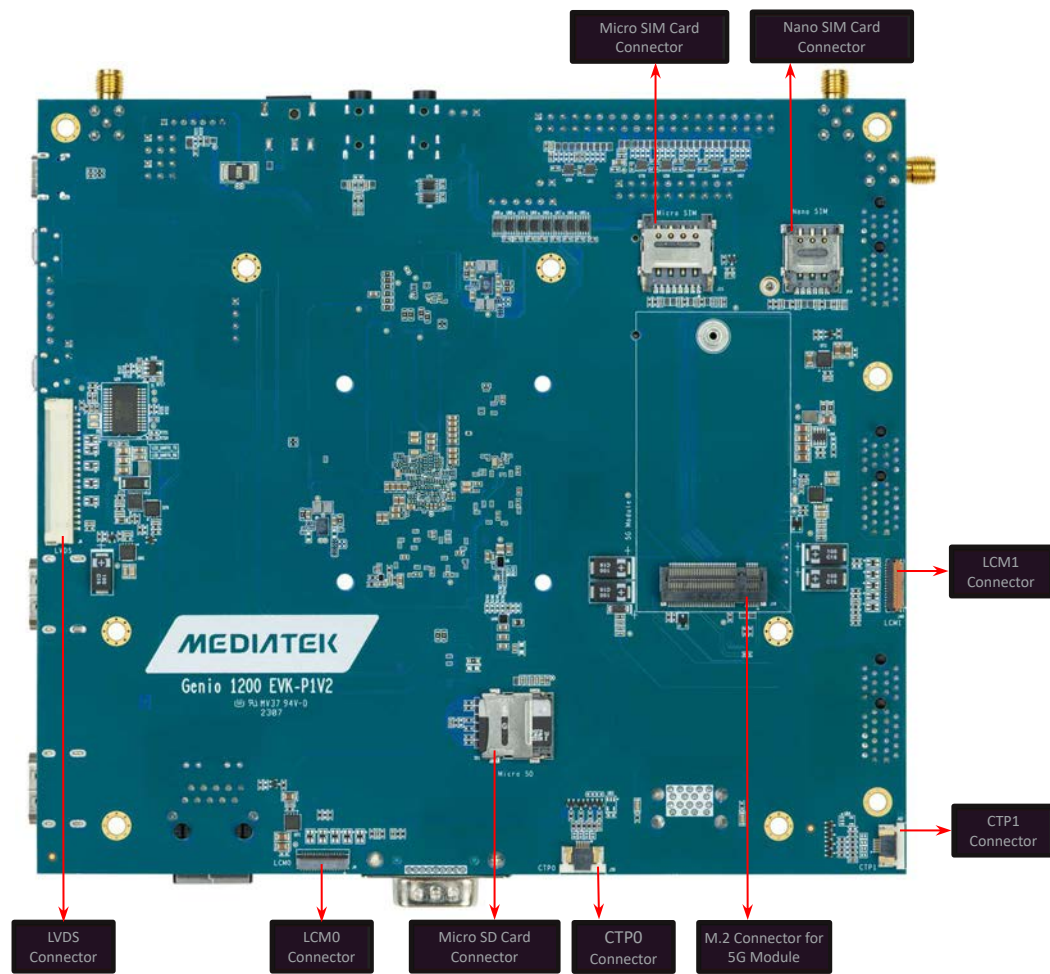   5: Power adapter with power cord

Figure 2-1 Genio 1200 EVK Set

3   Genio 1200 EVK Board Overview

Please refer below picture for IO function overview of EVK.
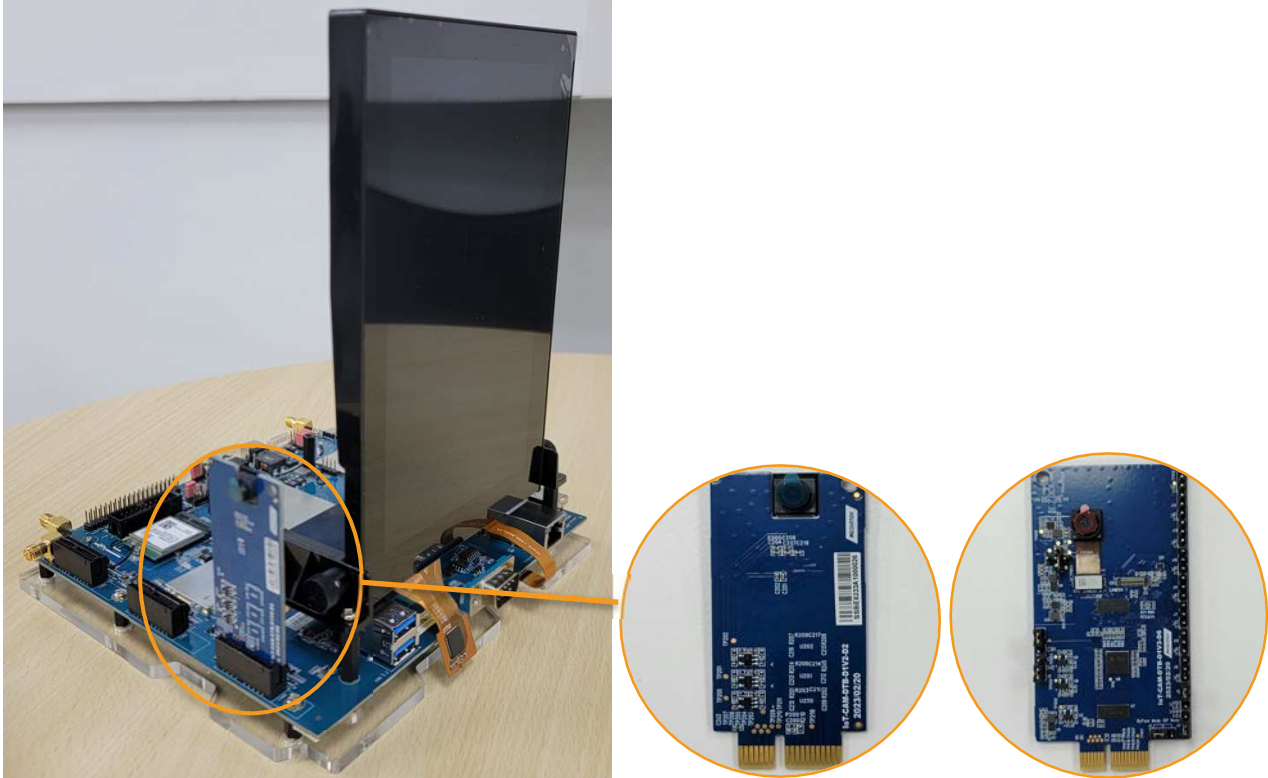

Figure 3-1 Genio 1200 EVK Top View

Figure 3-2 Genio 1200 EVK Bottom View

4   Camera Daughter Board Installation

Insert D2/D6 camera daughter board to Genio 1200 EVK CAM0 (or CAM2) connector.

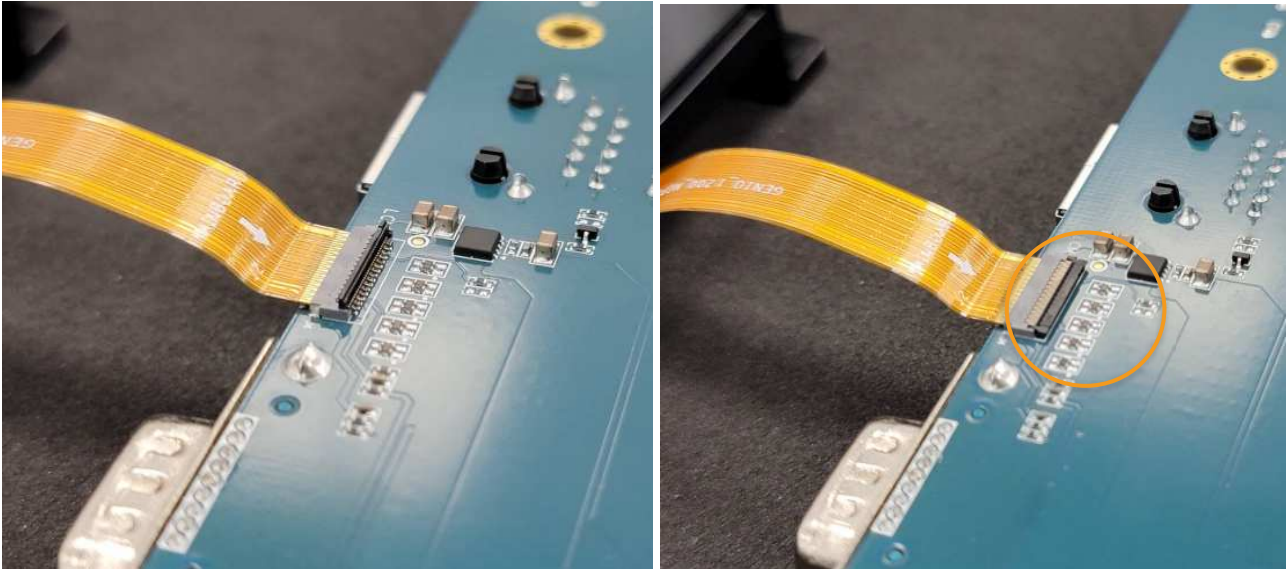

Figure 4-1 D2/D6 Camera Daughter Board Installation

5 MIPI DSI Panel FPC and Touch Cable Connection

Install procedure:

- Step 1

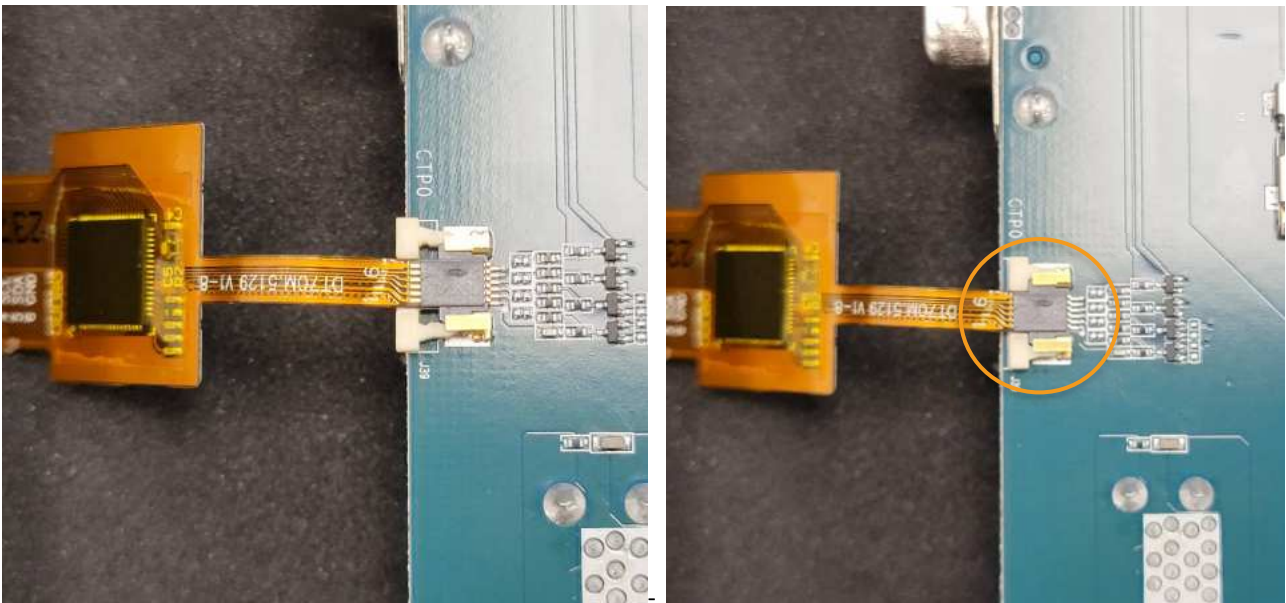Insert the MIPI DSI panel FPC into Genio 1200 EVK LCM0 connector. After cable inserted, the FPC connector must be pressed down firmly.

Figure 5-1 Connect the MIPI DSI Panel FPC

- Step 2

Loosen the Genio 1200 EVK CPT0 connector head, insert the touch cable into CPT0 connector. After cable insert, press tightly the connector head.

Figure 5-2 Connect the Touch Cable

6 How to Power Up the System

Step1: Must install Camera DTB on CAM0 or CAM2 connector.

(If camera app without in Android desktop, please refer to chapter 7 Appendix of Genio 1200 EVK User Guide for fixed it)

Step2: Connect UART0 to the computer via a micro-USB cable. (If you want to see the logs)

Step3: Plug in the DC 12V power adapter.

Step4: Long press PWR button more than 3 seconds.

You will see the screen is shown on MIPI display and some trace logs in UART0.
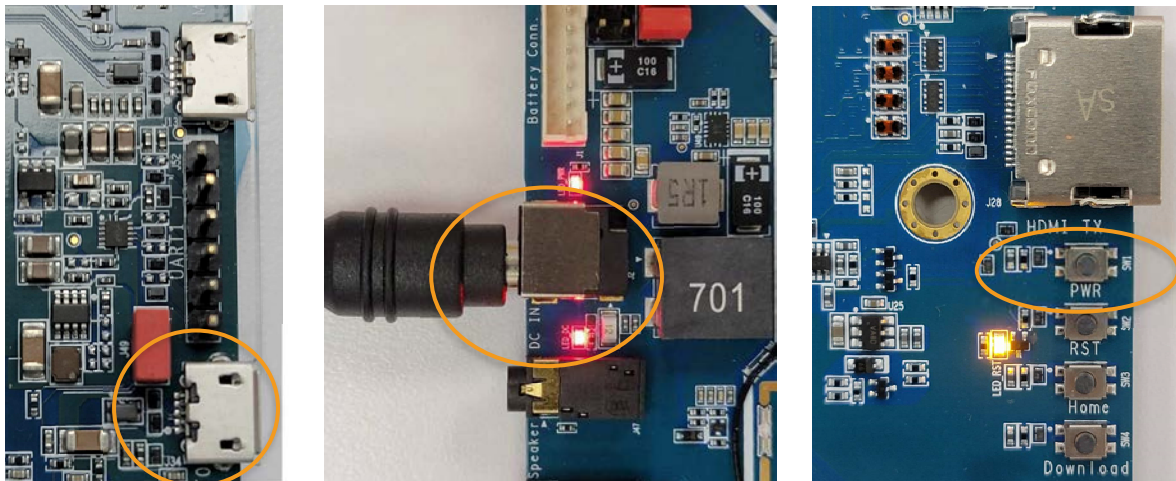

Figure 6-1 Power Up the System

Figure 6-2 Log Result Show on Screen

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