
SM1200 EVK

Development Kit

Quick Inatallation Guide

Version 1.0

2023.10





Revision History

Version	Release Time	Description
1.0	2023.10	Initial release

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About This Manual

This user's manual provides the general information and installation instructions for the product. The manual is meant for the experienced users and integrators with hardware knowledge of personal computers. If you are not sure about any description in this manual, consult your vendor before further handling.

We recommend that you keep one copy of this manual for the quick reference for any necessary maintenance in the future.

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1. Packing List

SM1200 EVK Packing List

Item#	Item Name	Remark	Usage
1	SM1200 EVK DEV KIT BOX PACKAGE		1
2	SM1200 SoM Board (MB)		1
3	SM1200 CB100 Carrier Board		1
4	8" Touch Display w/ FPC	FPC Installed	1
5	13MP Camera FPC, SONY IMX214		1
6	SM1200 Heat Sink Plate	Installed	1
7	Wifi Antenna		2
8	Antenna Cable		2
9	20-Pin HDMI RX FPC	FPC Installed	1
10	USB TYPE-C cable		1
11	12V Power Adaptor + Power Cord		1
12	M.2 Wi-Fi6 MODULE, AW-XB468NF	Installed	1

Table 1-1 SM1200 EVK Packing List



2. SM1200 EVK System Setup

The SM1200 EVK, the entire peripherals include:

1. 8" Touch panel with FPC pre-installed
2. Camera FPC x1
3. M.2 Wi-Fi 6/BT5.2 module pre-installed with 2 antenna cable sets
4. Power adapter with power cord plug
5. TYPE-C USB cable



Figure 2-1 SM1200 EVK Set

3. SM1200 EVK Board Overview

Please refer below picture for I/O function overview of EVK

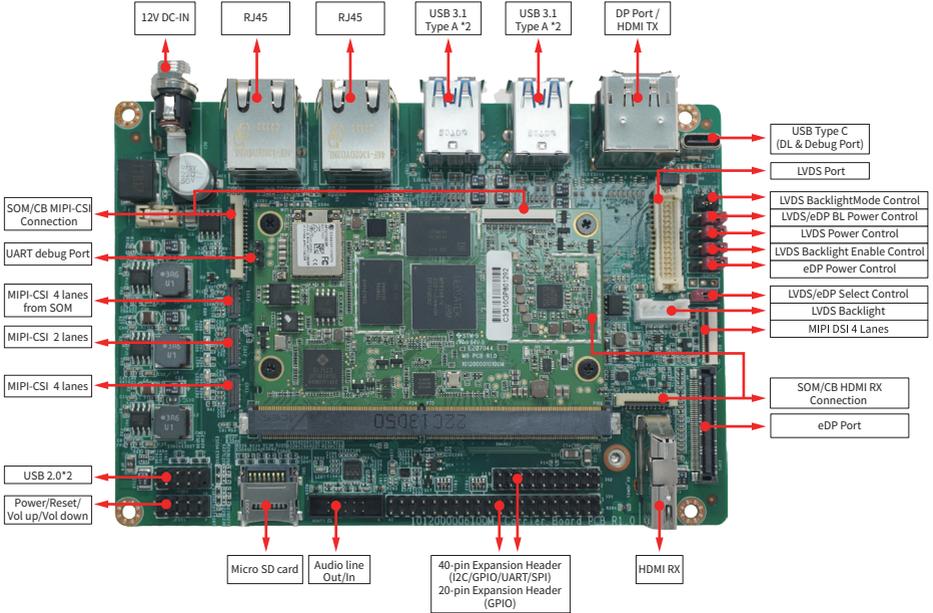


Figure 3-1 SM1200 EVK Top View

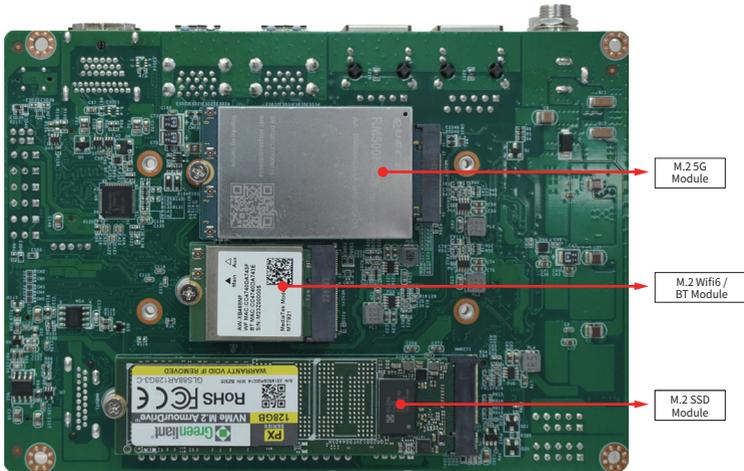


Figure 3-2 SM1200 EVK Bottom View

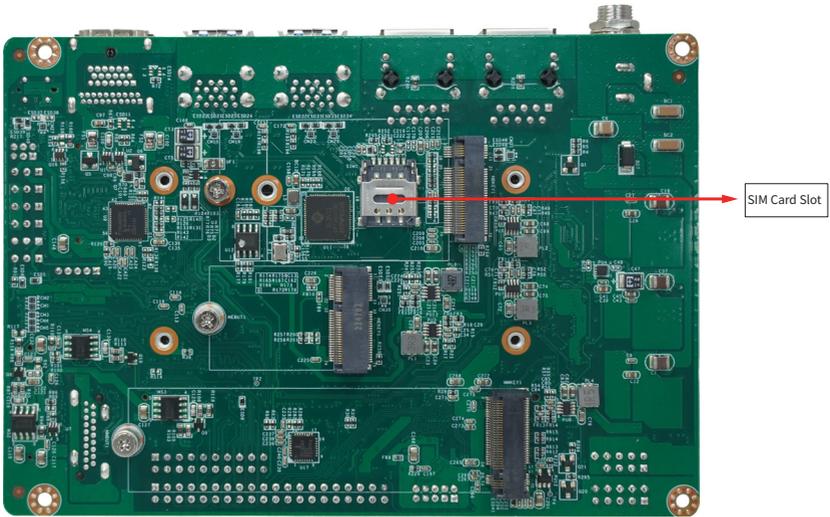


Figure 3-3 SM1200 EVK Bottom View

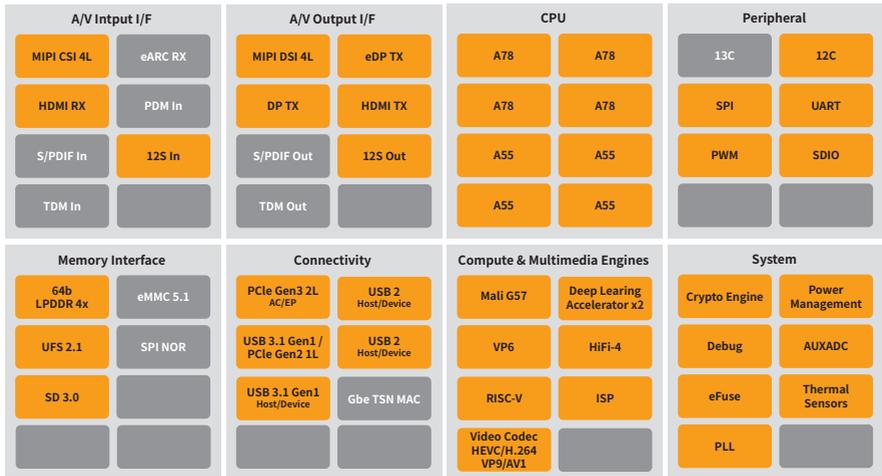


Figure 3-4 SM1200 Block Diagram

4. Camera Installation

Please connect and snap-in the Camera FPC onto the connector as indicated by the red circle location.

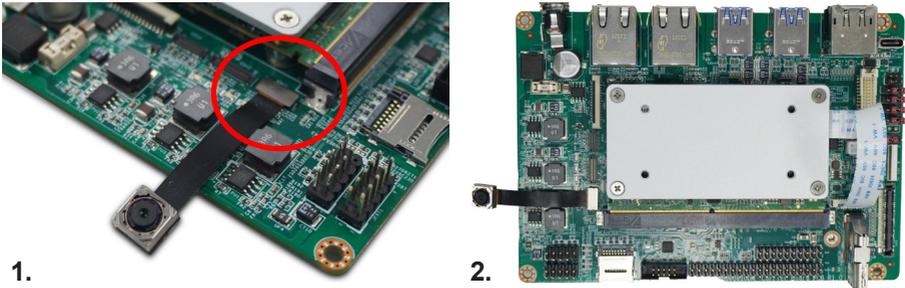


Figure 4-1 D2/D6 Board Installation

5. MIPI DSI Touch Panel FPC Cable Connection

Installation procedure:

Step1. Find the MIPI display connector and turn up the flip cover.

Step2. Align the FPC to the connector

Step3. Slide the FPC into the connector till the white line mark is been pushed inside the connector.

Step4. Press down the flip cover to ensure solid lockage.

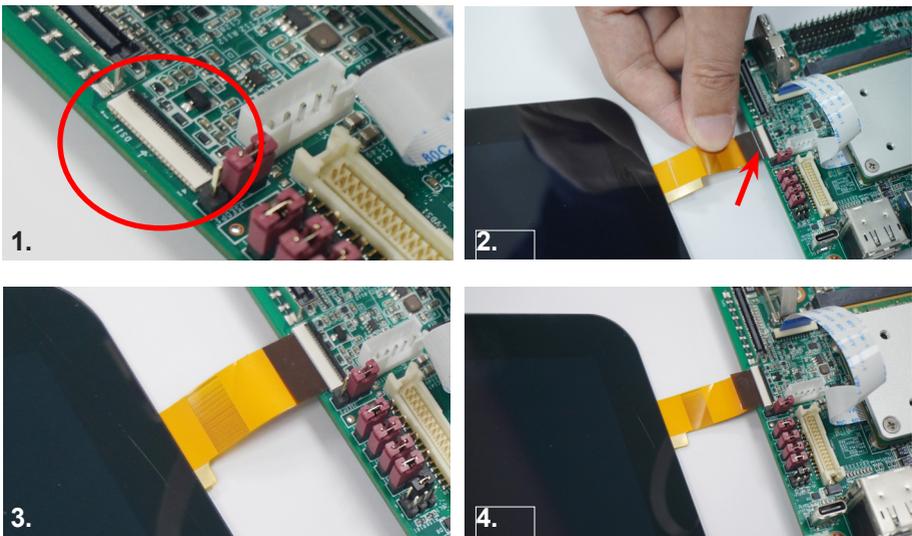


Figure 5-1 Connect the MIPI DSI Panel FPC

7. Debug Pins Definition

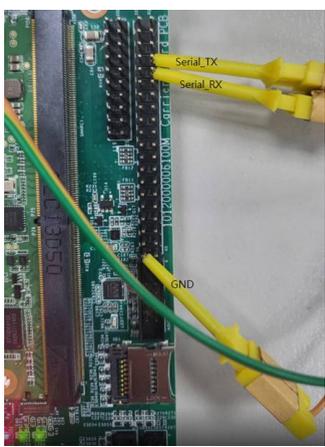
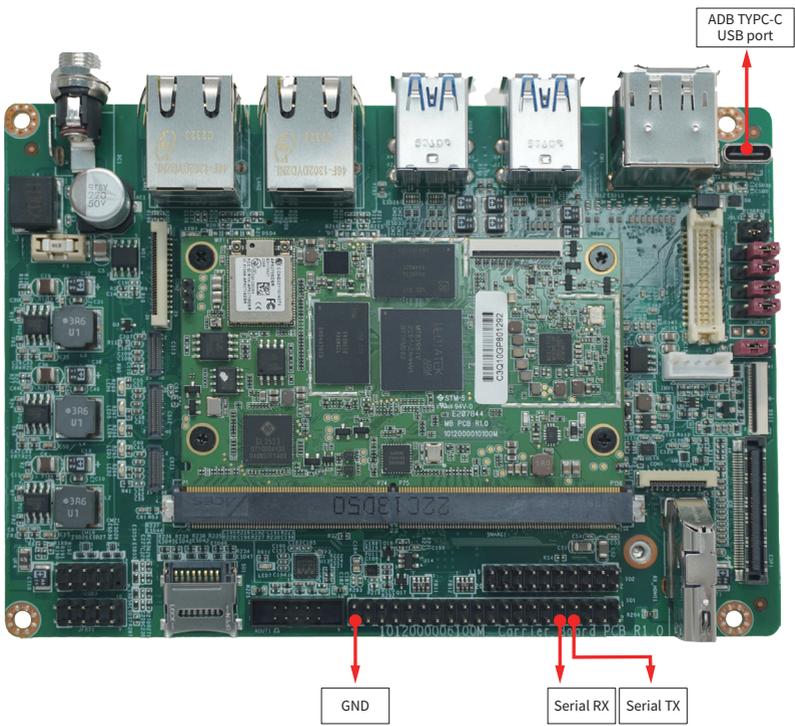


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