1. Packing List

Items for STK-VT6093-01A1
- 1 x SOM-9X20 module
- 1 x SOMDB2 carrier board
- 1 x VT6093 audio module
- 1 x COM cable
- 1 x AC adapter
- 1 x Power cord US type
- 2 x Antennas for Wi-Fi & Bluetooth
- 1 x VT6093-CAM-T Camera-CSI converter board
- 1 x 13MP CMOS camera module
- 1 x FPC cable for CSI connector

Items for STK-VT6093-00A1
- 1 x SOM-9X20 module
- 1 x SOMDB2 carrier board
- 1 x VT6093 audio module
- 1 x COM cable
- 1 x AC adapter
- 1 x Power cord US type
- 2 x Antennas for Wi-Fi & Bluetooth

2. Optional Accessories

Touch Panel

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>99G47-01025F</td>
<td>10.1&quot; MIPI 16:10 (WUXGA 1920 x 1200, 16.7M) LCD Touch panel with USB FPC touch cable and MIPI FPC cable</td>
</tr>
</tbody>
</table>
3. Developer Kit Assembly

3.1 Installing the SOM-9X20 Module on the SOMDB2 Carrier Board

Step 1
Align the notch on the SOM-9X20 module with its counterpart on the MXM 3.0 slot on the SOMDB2 carrier board. Then insert the module at a 30° angle.

Step 2
Once the SOM-9X20 module has been fully inserted, push down the module until the standoff holes align with the screw holes and then secure the module with the provided screws.
3.2 Connecting the 13MP CMOS Camera Module

**Step 1**
Connect the FPC cable to the VT6093-CAM-T (Camera-CSI converter board).

**Step 2**
Connect the 13MP CMOS camera module to the VT6093-CAM-T (Camera-CSI converter board).

**Step 3**
Connect the other end of the FPC cable to the MIPI CSI connector on the SOMDB2 carrier board.
3.3 Connecting Wi-Fi and Bluetooth Antennas

**Step 1**
Insert the antenna cables into the antenna holes from inside of the chassis (I/O plate). Insert the washers and fasten it with the nuts, and then install the external Wi-Fi and Bluetooth antennas.

**Step 2**
Connect the plug connectors of the antenna cables onto the respective micro-miniature RF antenna connectors on the onboard Wi-Fi+BT LGA module on the SOM-9X20 module.

**Reminder:**
We recommend to use a Jig when mating or unmating the plug connector to and from the micro-miniature RF antenna connector on the onboard Wi-Fi & BT LGA module. For more details, refer to Appendix B.
3.4 Connecting the COM Cable

Step 1
Connect the COM cable to the COM connector on the SOMDB2 carrier board.
Appendix A. Connecting LCD Touch Panel

A.1. Connecting 10.1" MIPI LCD Touch Panel

**Step 1**
Connect the USB FPC touch cable to the flexible printed circuit on the LCD touch panel.

**Step 2**
Connect the MIPI FPC cable to the LCD connector on the back of the LCD touch panel.
Step 3
Connect the other ends of the USB FPC touch cable and MIPI FPC cable to the P-Cap touch connector and MIPI DSI LCD panel connector respectively on the SOMDB2 carrier board.
Appendix B. Recommended Mating & Unmating Jig

B.1. Jig Dimensions

B.2. Mating Method of Plug Connector

Using the jig, align the plug connector onto the micro-miniature RF antenna connector. Then push down gently until the plug connector is fully connected. The recommended force must be 30N (maximum).