Installation Instructions

This installation guide will help you to assemble your development kit using step-by-step instructions to make sure all parts (development board, display, camera module and Wi-Fi antenna) are working.

Connect the parts

Connect the parts in the following order. Note that some versions of the PICO-WIZARD-IMX8M evaluation kit do not include the multi-touch display, camera/HDMI capture module and/or HDMI expander card.

Tips: Do not power your board during the installation process.

Standoffs

Let’s prepare four standoffs. It only takes a few minutes.

Step 1: Prepare evaluation board and standoffs.

Step 2: Locate four standoffs holes on the evaluation board.

Step 3: Locate a screw and insert it into the hole. Screw a standoff on the underside. Attach the standoffs for the remaining three holes.

Camera module / HDMI capture card (optional)

Please follow the steps below to properly install the camera module. The same steps can be applied to the installation of the HDMI capture card.

Step 1: Prepare camera module, FPC cable and evaluation board.

Step 2: Turn the camera module over to reveal a white connector near the edge of the module. Swivel the black retaining clip upward.

Step 3: Insert either end of the camera module cable into the white connector. Make sure that the blue side of the ribbon is facing up and is aligned straight with the connector. The silver pins on the FPC cable should be facing down.

Step 4: Swivel the retaining clip back down to hold the FPC cable in place.

Steps 5 and 6: Repeat these same steps with the other end of the cable and the connector on the board.

Tips: After installation remove the protective blue film from the camera lens.
Please follow the steps below to properly install the 5” display.

Step 1: Prepare evaluation board, MIPI expander board and screws.
Step 2: Locate the MIPI expander board and align the 70-pin connectors, gently press the connector on the back of the expander board onto the connector on the evaluation board until you hear a click sound.
Step 3: Use three screws to secure the MIPI expander board to the development board.
Step 4: Locate the MIPI Display connectors on the expander board. Swivel the black retaining clips upward.
Step 5: Insert end of the TOUCH and MIPI Display FPC cables into the connectors on the board. The silver pins on the FPC cable should be facing down. Then swivel the retaining clips back down to hold the FPC cables in place.
Step 6: Remove the protective transparent film from the display.

After you finish the panel installation, return to this guide.

Software Installation

The unit is preloaded with software that can download and install a selection of OS images over hardwired network. Simply connect a network to the unit through the LAN RJ45 and power it up, then follow the steps on the screen to load the software. Local proxies will interfere with this process. For more information, go to our Knowledge Base.

1. **Power Connector (DCIN1 DON2)**

   This product features one 2-pin Micro-Fit 3.0 power connector: DCIN1 +12v.

2. **SW3-SW8 Default Boot Mode Switches**

   The PICO-WIZARD-IMX8M features internal Default Boot Mode switches.

3. **WI-FI Mode Setting**

4. **IMX8M BOOT Device Jumper Settings**

5. **External Connectors**

6. **Software Installation**

   The unit is preloaded with software that can download and install a selection of OS images over hardwired network. Simply connect a network to the unit through the LAN RJ45 connector and power it up, then follow the steps on the screen to load the software. Local proxies will interfere with this process. For more information, go to our Knowledge Base.

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