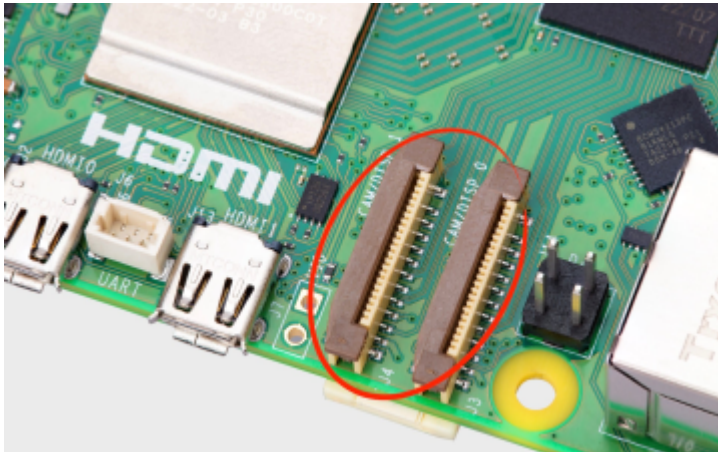


## 9.MIPI CSI DSI connector



The CSI and DSI ports found on previous models of Raspberry Pi have been combined into two dual-purpose CSI/DSI (MIPI) ports. To fit onto the board these now use a denser connector pinout, previously only found on Raspberry Pi Zero and the CM4IO board. You can connect two displays, two cameras, or one camera and one display to these ports.

### Attaching cameras

There is no configuration necessary for Raspberry Pi devices like [cameras](#). If you plug a camera into either MIPI connector you will get an appropriate CSI connection, and your camera will be made available to the OS.

### Attaching a display

If you are using our [7-inch Touch Display](#) with Raspberry Pi 5, it will not automatically be configured. You will need to add one of the following two lines to your `/boot/firmware/config.txt` file. Attaching the display to the `CAM/DSI 1` connector you should add:

```
dtoverlay=vc4-kms-dsi-7inch
```

Alternatively, attaching it to the `CAM/DSI 0` connector you can add the following line:

```
dtoverlay=vc4-kms-dsi-7inch,dsi0
```

### Available display cables



- There are three Flat Flexible Cables (FFC) available to connect DSI displays to the Raspberry Pi 5:
  - 200 mm display cable standard to mini
  - 300 mm display cable standard to mini
  - 500 mm display cable standard to mini

## Using non-Raspberry Pi devices

If you are using a non-Raspberry Pi MIPI device — either a camera, or a display — it will not be automatically configured for your Raspberry Pi 5. Instead you will need to add a `dtoverlay` setting into the `/boot/firmware/config.txt` file to correctly configure the right port for the right camera or display.

These `dtoverlay` settings should be provided by the manufacturer of your device. For example, adding `dtoverlay=ov9281` would configure an Omnivision OV9281-based camera on CSI/DSI1, while adding `dtoverlay=ov9281,cam0` would add the same camera to CSI/DSI0.