

# pITX-i.MX8M HAILO

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## Revision History

Rev. Index	Brief Description of Changes	Date of Issue
1.0	First official version	2022-02-22

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# Kontron pitx-iMX8M HAILO

## Requirements

- Kontron pitx-imx8m module
- Hailo module (in Starterkit pre-installed in M.2 slot on backside of pitX-iMX8M)
- Serial connection to the Kontron pitx-imx8m module
- uSD card
- HDMI monitor

## Documentation

- <https://hailo.ai/developer-zone/documentation/>  
[hailo.ai/developer-zone/documentation/](https://hailo.ai/developer-zone/documentation/)

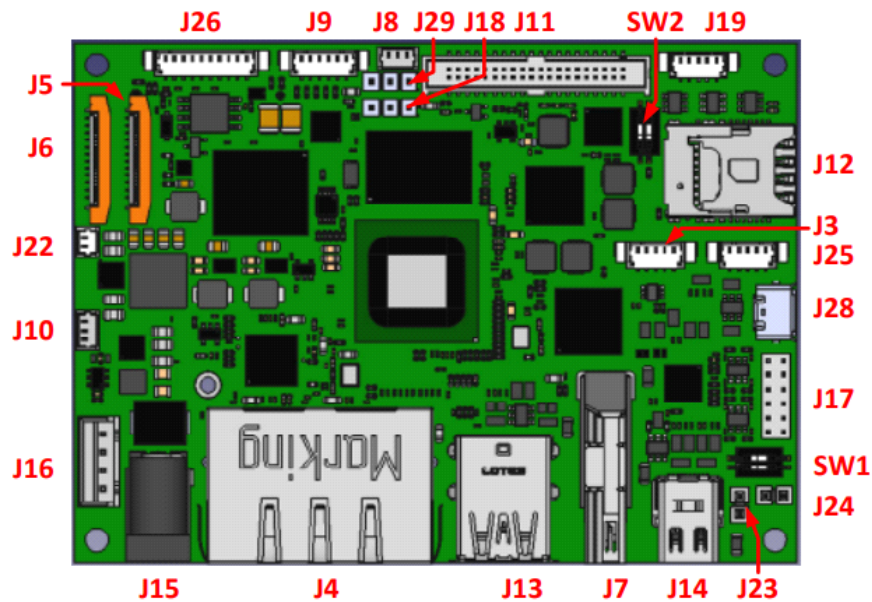


Figure 1: pitX-i.MX8M Module

## 2/ Download and install the demo image

The software image can be found on the Kontron customer section <https://emdcustomersection.kontron.com>. Please navigate to the product „pITX-imx8m“ and use the menu „Software & Demo Images“.

1. Attach installation media (uSD card) to Linux host computer and determine a device node by analyzing system logs::

```
$ dmesg | tail | grep sd
```

---

**NOTICE**

An SD storage should be greater than 2 GB.

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2. Write the wic image to uSD card:

```
# bzcat <DEMO_IMAGE>.wic.bz2 | dd of=/dev/sdX bs=1M conv=fsync
```

---

**NOTICE**

sdX was determined on the previous step. Make sure you have chosen the right device. Writing to the wrong device may result in loss of data.

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3. Configure serial connection on J19 port (Baudrate 115200), insert uSD card into J12 and power on the board.
4. Interrupt the boot process to enter U-boot command line by pressing any key.
5. Run the following command to boot from uSD card:  

```
=> run bootcmd_mmc1
```
6. After board is started login as user root. No password is needed.

### 3/ Evaluation of the functionality

Check if hailo driver is loaded:

```
# hailortcli scan
```

Expected output:

```
Hailo PCIe Devices:  
[-] Device BDF: 0000:01:00.0
```



## About Kontron

Kontron, a global leader in embedded computing technology and trusted advisor in IoT, works closely with its customers, allowing them to focus on their core competencies by offering a complete and integrated portfolio of hardware, software and services designed to help them make the most of their applications.

With a significant percentage of employees in research and development, Kontron creates many of the standards that drive the world's embedded computing platforms; bringing to life numerous technologies and applications that touch millions of lives. The result is an accelerated time-to-market, reduced total-cost-of-ownership, product longevity and the best possible overall application with leading-edge, highest reliability embedded technology.

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