

# MINI-NXP HAI02

Ultra Compact Edge AI System  
with NXP i.MX8M Plus + Hailo-8™ platform



## Features:

- NXP i.MX8M Plus (Quad core) ARM Cortex-A53 processor up to 1.8 GHz (NEX-8MP)
- LPDDR4, 8GB (NEX-8MP)
- 32GB eMMC 5.1 (NEX-8MP)
- Mini HDMI® ; 1 x GbE ; 1 x USB 3.0 Type A, 1 x USB 3.0 Type C
- 1 x Micro SD, 1 x RS485, 2DI/2DO
- M8 Connector: DC Power, LAN, DI/DO RS485

## Specifications :

Model name	MINI-NXP HAI02	
CPU	NXP i.MX8M Plus (Quad core) ARM Cortex-A53 processor up to 1.8 GHz (NEX-8MP)	
GPU	Vivante GC700UL GPU (NEX-8MP)	
AI Accelerator	Onboard Hailo-8™ AI processor	
Memory	LPDDR4, 8GB (NEX-8MP)	
Storage	32GB eMMC 5.1 (NEX-8MP), option 64/128/256GB 1 x Micro SD	
Expansion slot	Network	1 x GbE (M8 I/O)
I/O ports	USB	1 x USB 3.0 Type A, 1 x USB 3.0 Type C
	Serial ports	1 x RS485 + 2DI/2DO (M8 I/O)
	Display	1 x Mini HDMI®

## Mechanical

Dimensions	66W x 94D x 30.8H mm
Weight	290g

## Power

DC input	Wide Range DC-IN 9-24V
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## Environment

Operating Temp. (100 % CPU usage)	-40°C to +65°C
Storage Temp.	-20°C to +70°C
Relative Humidity	95% @ 40°C, non-condensing
OS Support	Yocto mickledore imx-6.1.55-2.2.0_desktop (Proof of Concept ; POC)

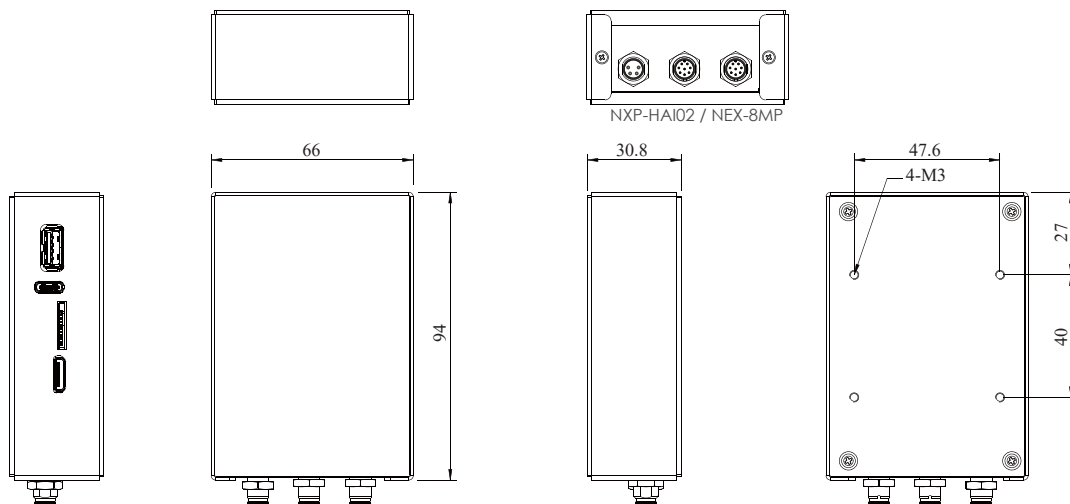
## ODM with Camera :



### Camera Information (option)

CMOS Sensor	onsemi AR0821
Maximum Frame Rate (YUY2)	1920 x 1080 @ 60 fps 1280 x 720 @ 60 fps 640 x 480 @ 60 fps
OutputFormat	YUV2
Input Clock Range	48 MHz
Interface	
Module Data Transmission	MIPI CSI-2, up to 4 lanes
Connector	22 Pin Standardized ZIF Connector

## Dimension



Specification are subject to change without prior notice. ODM / OEM is available.