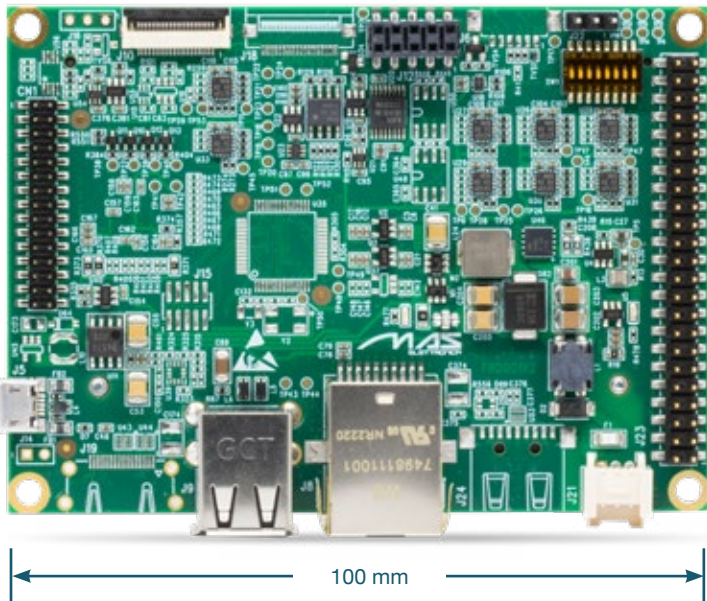


# SBC AIDA IMX8M PLUS



## Processor

Up to 1.8GHz Quad Cortex™-A53 NXP i.MX 8M Plus  
MCU On Chip: 800MHz Cortex-M7  
DSP: HiFi4 DSP  
PERFORMANCE (DMIPS): Up to 16,560

## Software

Yocto Kirkstone LTS



## Application areas



**INDUSTRIAL**



**MEDICAL**



**AMBIENTALE**

## SBC AIDA IMX8M PLUS

AIDA Single Board Computer SBC based on the NXP integrated multicore Arm A53 i.MX 8M PLUS Family. The standard form factor PICO ITX and SMARC 2.0 ensures the complete modularity of the solution.



## Features of the CPU module.

Below are the principal Features of the Module.

CPU
CPU: Up to 1.8GHz Quad Cortex™-A53 NXP i.MX 8M Plus MCU On Chip: 800MHz Cortex-M7 DSP: HiFi4 DSP PERFORMANCE (DMIPS): Up to 16,560
VIDEO
HDMI: 1XHDMI CONNECTOR V2.0a up to 4Kp30 DSI: MIPI-DSI 1920x1080 24-bit LVDS: 1XLVDS CONNECTOR 1920x1080 24-bit Touch controller: Capacitive
STORAGE AND RAM
RAM: 2 – 8 GB LPDDR4 eMMC: 8 – 128 GB uSD: 1x uSD connector
CONNECTIVITY
LAN: 1xGigabit ethernet connector USB: 2X USB 2.0 Connectors ;1XUSB 3.0 CAN: 2xCAN FD 2.0 RS485: 1XRS485 RS232: 1xRS232
SECURITY
TPM Trusted Platform Module compliant 2.0 integrato.
MULTIMEDIA
2D/3D Graphics Acceleration: GC7000UL/ GC520L Video Encode / Decode: 1080p60 H.265/ H.264/ VP9/ VP8 Decoder, 1080p60 H.265/ H.264 Encoder Camera Interfaces: 2x MIPI CSI2 AI/ML: AI/ML NPU acceleration 2.3 TOPS

PERIPHERALS
SPI: 2X SPI I2C: 2X I2C GPIO: 10 GPIO RTC: 1XRTC WITH BATTERY
SOFTWARE SUPPORT
Linux kernel 5.15.xx YOCTO Kirkstone
MECHANICAL SPECIFICATION
Dimensioni: 100 x 72 mm
ELECTRICAL SPECIFICATIONS
Power Supply: 9-36VDC Consumption: 200mA@12V
TEMPERATURE SPECIFICATIONS
-40 to +85°C
LONGEVITY
2036

## BLOCK DIAGRAM SBC AIDA IMX8M PLUS

