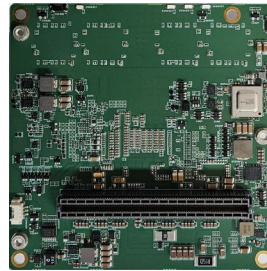
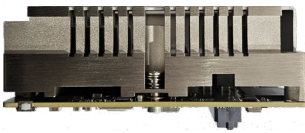
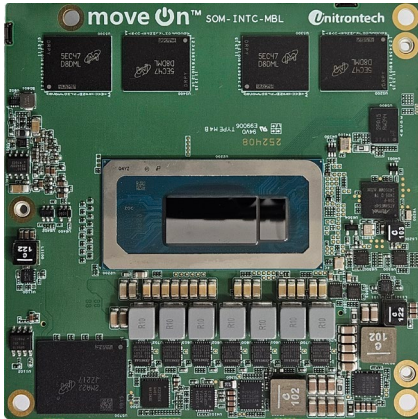


move

Intel Maliboulake SoM

Key Features

- 13th Generation Intel® Core™ Processor
- Intel® hybrid design combines **P-cores** with **E-cores**
- Onsoldered **32 GB LPDDR5x** with up to **6400 MT/s**
- **512GB NVMe SSD**
- **2.5Gbase-T1** with **TSN** support
- High speed I/O : up to **PCIe Gen 5** & up to **USB 3.2**
- 8 Lanes **MIPI CSI2**
- 1 DDI ports support configurable **HDMI/DisplayPort**
- Pre-load **Ubuntu 22.04** image
- Intel **VT-x** ready with **ACRN Hypervisor**



Specification

Processor System

CPU	Intel® Core™ 13th Gen Processors Malibou Lake-P (H-Series)
Cores	14Cores (6P+8E)
P-Core (Base/Turbo Frequency)	2.5/5.0GHz
E-Core (Base/Turbo Frequency)	1.8/4.0GHz
Intel® Smart Cache (L3)	24MB
CPU TDP	65W

Processor Graphics

GPU	Intel® Iris® Xe Graphics architecture up to 96 EUs
Graphics Max Dynamic Frequency	1.4 GHz
Graphics Output	1x DP1.4a
Hardware video encode/decode	up to 8K60 HEVC
Supported API	DirectX12.1 / OpenGL4.6 / OpenCL3.0

Memory

DRAM	32 GB LPDDR5x with up to 6000 MT/s SDRAM memory down dual channel
Flash Storage	512GB NVMe SSD

Audio

Chipset	Intel® HD Audio integrated in SoC
---------	-----------------------------------

Peripheral Interfaces

Ethernet (Intel® MAC)	1x 2.5GbE with TSN
USB	4x USB3.2 Gen.1, 3x USB2.0
PCIe	1x 8-lane PCIe Gen5 1x 4-lane PCIe Gen4 4x 1-lane PCIe Gen3
MIPI	8x MIPI CSI-2
UART	3x 2wire UART, 1x 4wire UART
SPI	1x SPI
I2C	4x I2C
I2S	1x I2S

Power Supply

DC	Typ. 12V
----	----------

Mechanical

Dimensions	95mm x 95mm
------------	-------------