



N601

INTEL METEOR LAKE AI PC



Intel® Meteor Lake
Ultra processors



Intel® AI Boost NPU
Max frequency 1.4 GHz



1 x HDMI, 1 x DP, 1 x Thunderbolt4
Up to 7680 x 4320 @60 Hz



Thunderbolt 4



Support Wi-Fi 7

CPU

CPU	Intel® Core™ Ultra 5 Processor 125U Intel® Core™ Ultra 5 processor 125H Intel® Core™ Ultra 7 processor 155H
Chipset	SoC
Total Cores	12 Cores /14 Cores /16 Cores
Total Threads	14 /18 /22
Base Power	15W /28 W /28 W
NPU	Intel® AI Boost, 1.4 GHz
Frameworks Supported	OpenVINO™, WindowsML, DirectML, ONNX RT, WebGPU

System

System Memory	Up to 96 GB, 2 x SO-DIMM DDR5-5600 MHz
Storage	1 x M-Key M.2 (2280) PCIe4.0 X4 for SSD 1 x M-Key M.2 (2280) PCIe4.0 X1 for SSD
TPM	Optional: TPM2.0
Power Requirement	DC-IN, 19 V/6.32 A
Dimensions	126mm x 117.5mm x 52mm (5.74" x 4.94" x 2.04")
Construction	Metal, Grey. I/O Panel, Plastic
Operating System	Windows 11 (64bit) /Linux Ubuntu (64bit)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F) @0.7m/s Air Flow
Humidity	95% @ 45°C (non-condensing)
Certifications	CE, FCC Class B, UKCA

Network

Network Controller	1 x Intel® i226-V Gigabit Ethernet
Ethernet Interface	1 x 2.5 GbE RJ45
Wi-Fi/BT	1 x E-Key M.2(2230) for Wi-Fi/BT Support Wi-Fi 6, Wi-Fi 6E (CNVi), Wi-Fi 7
Mobile Network	NA

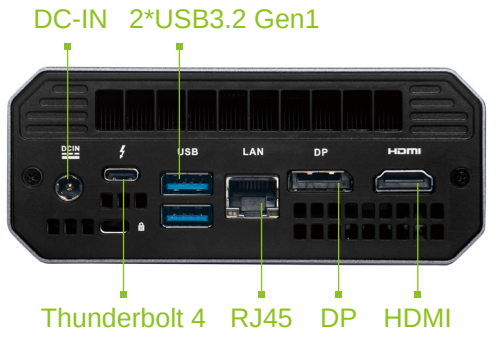
Display

GPU	Intel® Graphics (125U) Integrated Intel® Arc graphics (125H/155H)
Graphic Engine	DirectX 12.2, OpenGL 4.6, OpenCL 3.0, H.264 /H.265 /AV1 Hardware Encode /Decode, VP9 Bitstream & Decoding
Display Interface	1 x HDMI (Max.4096 x 2304 @60Hz) 1 x DP1.4 (Max.7680 x 4320 @60Hz)
Multi-display	Quad 4K@60Hz (2 via Thunderbolt 4 + 2 via HDMI/DP) Dual 8K@60Hz (1 via Thunderbolt 4 + 1 via DP1.4)

I/O interface

USB	1 x USB Type-C3.2 Gen2, 1 x USB3.2 Gen 2, 2 x USB 3.2 Gen 1, 1 x Thunderbolt 4
Serial Port	NA
Audio	1 x 2-in-1 Headset (MIC-IN & AUDIO-OUT)
Button	1 x Power on, 1 x CLR-CMOS
Antenna	2 x Internal Wi-Fi Antenna

Dimensions and Drawing



Order information

N601-125U50N0G-GIA	CPU: Intel® Core™ Ultra 5 processor 125U Memory: NA Storage: NA
N601-125H50N0G-GIA	CPU: Intel® Core™ Ultra 5 processor 125H Memory: NA Storage: NA
N601-155H50N0G-GIA	CPU: Intel® Core™ Ultra 7 processor 155H Memory: NA Storage: NA
Packing List	1 x AC Power Cable, 1 x AC Power Adapter
Package	Carton, EPE

Optional items

VESA Mounting	-
Wi-Fi/BT Module	Wi-Fi 5 (802.11ac): Intel® Wireless-AC 9260, Intel® Wireless-AC 9560 Wi-Fi 6 (802.11ax): Intel® Wi-Fi 6 AX200, Intel® Wi-Fi 6 AX201 Wi-Fi 6E (802.11ax): Intel® Wi-Fi 6E AX210
Operating System License	Windows 11 (64bit)

