

Model: NUC12U (12th generation CPU) NUC13U (13th generation CPU)

Version: V1.1A

Installable Motherboard Model	NUC12U / NUC13U (PCB model: NUC12U; Version: V1.1A; Specification updated: August 22, 2024)
Chassis	Color: Grey; Size: 110x107x47.5mm(LxWxH); Material: Metal. Option laser-engraving customized logo on the chassis; Option customized VESA mounting bracket.
External I/O Interfaces	1xDC_IN 9V~24V, 1xMini DP, 1xHD MI, 1xRJ45 LAN, 3xUSB3.2, 2xUSB2.0, 1xType-C (Display & USB3.0), 1xRS232/RS422/RS485 COM, 1xAudio, 1xPower button.
Cooling System	With fan (Support temperature control)
Option Processor (FCBGA1744)	Support Intel 12th Generation Alder Lake Processors: i3-1210U, i3-1220P, i5-1235U, i5-1240P, i7-1255U, i7-1260P, etc; Support Intel 13th Generation Raptor Lake Processors: i3-1305U, i5-1335U, i5-1340P, i7-1355U, i7-1360P, etc.
Memory	1xSODIMM 2133/2400/2666/2933/3200MHz DDR4 Memory socket, up to 32GB RAM.
Storage	1xM.2 2280 NVME PCIE3.0 Key-M interface(Option SATA signal; 2242 size).
Power Supply	Support DC input wide voltage 9V~24V; DC Jack 5.5x2.5mm. Power consumption: 55W(U-series CPU), 64W(P-series CPU)
Ethernet	1xIntel WGi219V 1000Mbps RJ45 LAN interface; Support Wake-on-LAN and PXE function.
Display Function	Integrated with Intel® UHD Graphics / Iris® Xe Graphics eligible in CPU; Support up to 3 displays. Type-C USB3.0 interface supports resolution 4096/3840 x 2160@60Hz; Mini DP interface supports resolution 4096/3840 x 2160@60Hz; Do not support DP++. HD MI 2.0 interface supports resolution 4096/3840 x 2160@60Hz; Expansion: The Mini DP transfers to HD MI must be use an active Mini DP to HD MI cable, otherwise the monitor will be no display. The Mini DP can be converted to DP.
HD Audio	Integrated Realtek ALC897 HD Audio chip; Support 1xAudio interface (Line-out & Mic-in);
Expansion Slot	1xM.2 Key-E 2230 PCIE3.0 socket(Support Wi-Fi &Blue module).
COM Interface	1xRS232 COM interface (Option RS422/RS485 by BIOS setting).
Internal Pins/Slots	F_PANEL, AUTO_SW, CLR_CMOS.
CMOS Battery	CR2032 3V battery with wire (Detachable)
BIOS	AMI BIOS supports power on,timing switch,remote switch,intelligently identify devices. Option UEFI Secure Boot; Option Trusted Platform Module (TPM) version 2.0; Option customized boot logo in OS.
Watch Dog	Watchdog programming; Support hardware reset function (256 levels, 0~255 seconds).
Operating Environment	Operating temperature: -10°C~60°C; Working humidity: 5%~95% Relative humidity, no condensation.
Support OS	Compatible with Win 11 versions 21H2/22H2/23H2/24H2, Win 10 versions 21H2/22H2, Linux.
Warranty period	12 months