NUC-ADN

Intel® Alder Lake-N Fanless NUC System

Product Features

- Intel® Alder Lake-N Processor
- Support 2.5" Storage, Key-E for Wi-Fi (CNVi), dTPM 2.0
- Max. 3-Display (2-HDMI 2.0b, 1-DP from Type C)
- Default VESA & Din-Rail Kit
- Single Memory Socket, Max. Up to 16GB DDR5 4800 MHz
- Dual Intel® 2.5 Gigabit Ethernet
- Max. 5-USB 3.2 (4-Type A, 1-Type C)

Specification

System Information	
Processor	Intel® Processor N97(4-Core, 6M, 12W)
System Memory	1 x 262-pin SODIMM Socket Max. up to 16GB DDR5 4800 MHz
I/O Chipset	ITE IT5782VG
BIOS Information	AMI 256Mb UEFI BIOS
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU Temperature, Voltage with Auto Throttling Control
TPM	TPM 2.0
SBC	NUC-ADN
Expansion	
M.2	1 x M.2 Key-E 2230 (PCIe, USB 2.0, CNVi)
Storage	
2.5 Drive Bay	1 x 2.5" Drive Bay (7mm)
Front I/O	
USB	1 x USB3.2 Gen 2 type C, support DP/PD Max. 30W
Power Button	1 x Power Button w/LED
Audio	1 x Audio Jack (Mic-in+Line-out)
HDMI	2 x HDMI 2.0b
Rear I/O	
USB	4 x USB3.2 Gen 2

COM Port	1 x RS232/422/485 (BIOS) 1 x RS232
LAN Port	2 x RJ45 w/LED
AC/DC Input	1 x Lockable DC Jack

Right I/O

Antenna	2 x Antenna Mounting with Dust Cover

Display

Graphic Chipset	Intel® UHD Graphics
Resolution	HDMI 2.0b: 4096x2160@60Hz

Audio

Audio Codec	Realtek ALC888S

Ethernet

LAN Chipset	2 x Intel® Ethernet Controller I226V
Data Rate Per Port	10/100/1000/2.5G Base-Tx GbE compatible

Power Requirement

Voltage Input Spec.	+12V DC-in
Voltage Input Connector	1 x Lockable DC Jack
ACPI	Single power ATX support S0, S3, S4, S5
Power Mode	AT/ATX (ATX is default setting)
Adapter	60W AC to DC Adapter (Default)/ 120W AC to DC Adapter (Option) Note1: 60W for general mode (w/o Type C PD workload) Note2: 120W for full load mode (w/Type C PD workload)

Software Support

OS	Win10, Win11, Linux

Certification

Certification Information	CE/FCC Class B, UKCA

Mechanical & Environmental

Operating Temp.	0°C ~ 50°C (32°F ~ 122°F) with 0.5m/s air flow
Storage Temp.	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	115mm x 111.2mm x58mm (4.58"x 3.78" x 2.28")
Vibration Test	With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis
Shock Test	With SSD: 55G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces

Onboard I/O

COM Port	2x2x5P 1.27mm header (RS-232, RS-232/422/485)

EC Debug	1x1x3P 2.0mm header
Front Panel	1x2x5P 1.27mm header (Include buzzer function)
SATA Signal	1x1x7P SATA Connector
eSPI	1x2x5P 1.27mm header
RTC Battery	1x1x2P 1.25mm wafer reserved for the wired RTC battery *The lifetime of the RTC battery selecting needs to meet the DQV standard.
AT/ATX Selector	1x1x3P 2.0mm header (AT/ATX)
SATA PWR	1x1x2P 2.0mm wafer

Ordering Information

Ordering Information	NUC-ADN-N97-A1-1R Intel® Alder Lake N97 Fanless NUC System