



NUC-EHL

Intel® Elkhart Lake Fanless NUC Slim System

- > Intel® Elkhart Lake Celeron® Processor J6412
- > Single DRAM Socket, Max. Up to 32GB DDR4 3200MHz
- > Rich I/O, 2-COM, 2-HDMI, 2-LAN (2.5GbE), 6-USB3.0, Micro SD slot, Kensington Lock
- > Fanless operating from 0~60°C
- > On Board TPM 2.0 Default Table Stand
- > IP40, HDM2.0b, Wi-Fi (CE/FCC) certificated

+ Spec

System Information	
Processor	Intel® Elkhart Lake Celeron® Processor J6412
System Memory	1 x 260-Pin SO-DIMM Socket, Max. Up to 32GB DDR4 3200MHz
I/O Chipset	EC ITE IT5571VG
BIOS Information	AMI BIOS, 128Mbit SPI Flash ROM
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	TPM2.0
SBC	NCM-EHL
-Expansion-	
M.2	1 x M.2 Key-B 2242/3042 with Internal SIM Slot (PCIe, USB 2.0) 1 x M.2 Key-E 2230 (PCIe, USB 2.0)
-Storage-	
M.2	1 x M.2 Key-B, 2242 (SATA3)
SD Card	1 x Micro-SD Card Slot
-Front I/O-	
USB Port	2 x USB 2.0
COM Port	1 x RS232/422/485 (BIOS)
Audio	1 x Line-Out, 1 x Mic-In
Power Button	1 x Power On/Off w/ LED
-Rear I/O-	
USB Port	4 x USB 3.2 Gen.2 (10Gbp/s)
COM Port	1 x RS232/422/485 (BIOS)
HDMI	2 x HDMI 2.0b
RJ-45	2 x RJ45
LED Indicator	1 x Power on/off LED 1 x Storage Access LED
-Right I/O-	
Antenna	2 x Antenna Mounting with Dust Protection Cover
-Left I/O-	
Antenna	2 x Antenna Mounting with Dust Protection Cover 1 x Micro-SD Card Slot
-Display-	
Graphic Chipset	Intel® UHD Graphics for 10th Gen Intel® Processors
Resolution	2 x HDMI 2.0b: 4096x2304@60Hz
-Audio-	
Audio Codec	RealTek ALC888S-VD2-GR
-Ethernet-	
LAN Chipset	2 x Intel® I225-LM
Specification	10/100/1000/2.5 Gigabit
-Power Requirement-	
DC Input Voltage	+ 12Vdc (Optional DC 12~24V)
DC Input Connector	1 x Lockable DC Jack
ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	12V/5A AC-DC 60W Adapter
-Software Support-	



OS Information	Win10, Win11, Linux
-Certification-	
Certification Information	CE, FCC Class B, UKCA Wi-Fi 6E RF certified
Mechanical & Environmental	
Operating Temperature	With extended temperature peripherals: 0°C ~ 60°C (32°F ~ 140°F) with 0.5m/s air flow
Storage Temperature	-30°C~70°C(-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	170mm x 125mm x 36mm(6.69" x 4.92" x 1.42")
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
IP Rating	40
Mounting Kit	Table Stand (Default) Din Rail/VESA (Optional)
Kensington Lock	1 x Kensington Lock
Construction	Aluminum + Metal
Ordering Information	
Ordering Information	NUC-EHL-J12-A1-1R Intel® Celeron® J6412 Fanless NUC Slim System

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Assured Systems

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