



Features

- Intel® 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, HDMI2.0b, Wi-Fi (CE/FCC) certificated



Wi-Fi 6E
CE/FCC
Certified



Ultra Slim
H only 36mm



Rugged
Design
5G/55G



Micro SD
Card



No Vents
IP40

Specifications

System Information

Processor	Intel® Celeron® Processor J6412 (1.5M Cache, up to 2.60 GHz)
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)
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Storage

M.2	1 x M.2 Key-B, 2242 (SATA3)
MicroSD Card	1 x Micro SD card slot

Front I/O

USB	2 x USB 2.0
LED Indicator	1 x Power On/Off w/ LED
Audio	1 x RS232/422/485 (BIOS)
HDMI	1 x Line-Out, 1 x Mic-In

Rear I/O

USB	4 x USB 3.2 Gen.2 (10Gbp/s)
COM Port	1 x RS232/422/485 (BIOS)
LED Indicator	1 x Power on/off LED 1 x Storage Access LED
LAN Port	2 x RJ45
HDMI	2 x HDMI 2.0b
AC/DC Input	1 x Lockable DC Jack

Right I/O

Antenna	2 x Antenna Mounting with Dust Protection Cover
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Left I/O

Antenna	2 x Antenna Mounting with Dust Protection Cover 1 x Micro-SD Card Slot
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Display

Graphic Chipset	Intel® UHD Graphics for 10th Gen Intel® Processors
Resolution	2 x HDMI 2.0b: 4096x2304@60Hz

Audio

Audio Codec	RealTek ALC888S
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Ethernet

LAN Chipset	2 x Intel® I225-LM
Specification	10/100/1000/2.5 Gigabit

Power Requirement

ACPI	Single power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 12V/5A AC-DC 60W Adapter

Software Support

OS	Win10, Win11, Linux
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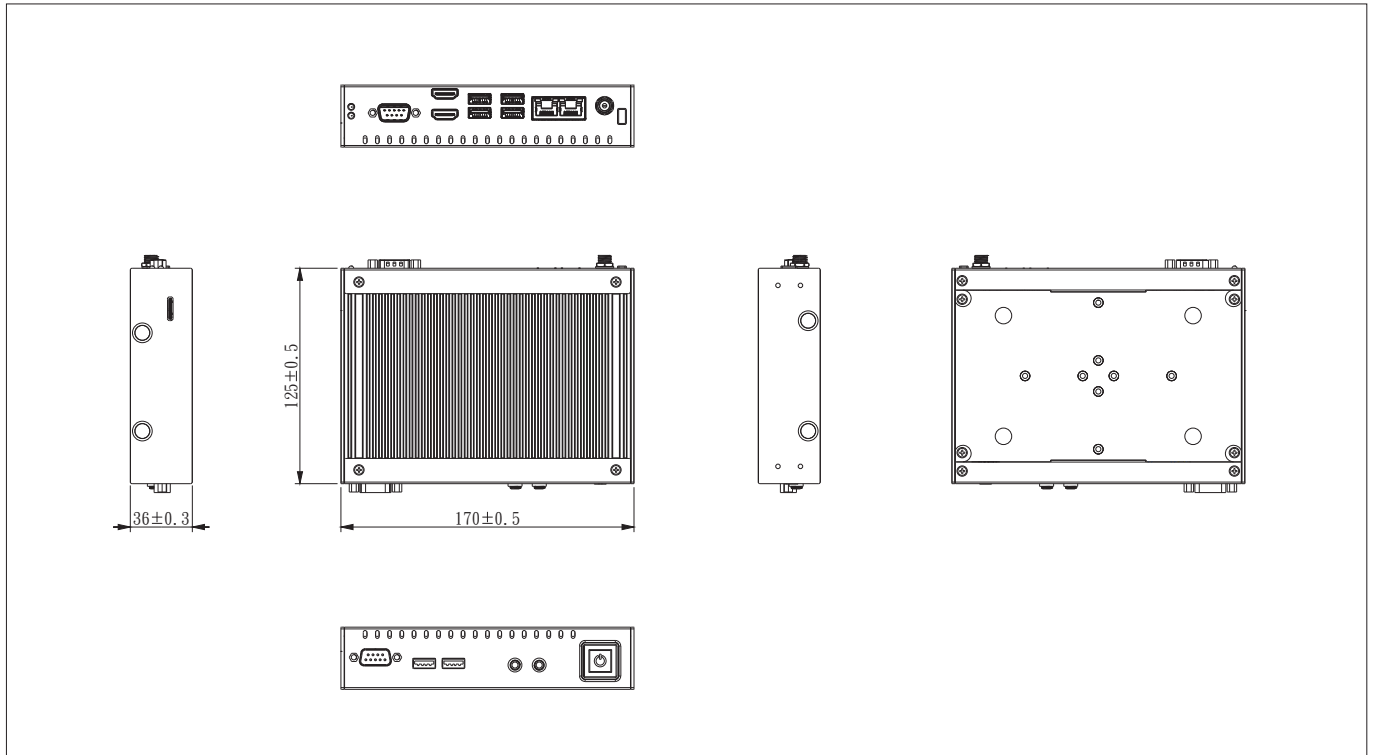
Certification

Certification Information	CE, FCC Class B, UKCA Wi-Fi 6E RF certified
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Mechanical & Environmental

Operating Temp.	With extended temperature peripherals: 0°C ~ 60°C (32°F ~ 140°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)	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

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Adapter	Mounting Kit	I/O Ports (COM/USB/LAN)	Display Output	Power Input	Working Temp.	OS Support
NUC-EHL-J12-A1-1R	Intel® Celeron® Processor J6412	4GB DDR4	12V/5A	Stand (Default) VESA/Din Rail (Optional)	2/6/2	HDMI	+12~24V DC in	0°C ~ 60°C	Windows 10/11 Linux

Packing List

Item	Quantity
NUC-EHL Slim System	1
AC/DC Adapter 12V/5A	1
Table Stand	1
Screw Kit for Peripherals	1

Optional Items

Item	P/N
Power Cord 3P (F)-3P (M) 183cm, USA Type	E1702031833R
Power Cord SL-6+SL-3 183cm, EU Type	E1702031000R
Power Cord 3P (F)-3P (M) 183cm, Japan w/PSE Type	E1702031834R
Power Cord QP-026+SL-3 183cm, UK Type	E170P060380R
Power Cord 3P (F)-3P (M) 183cm, Australia Type	E1702031831R
Mounting Kit (VESA/Din Rail Kit)	ACC-NUC-KIT-01R
Intel AX210.NGWGIE.NV, Wi-Fi kit (Dipole)	ACC-WIFI-KIT-14R

I/O Overview

