



intel[®] nuc

Intel[®] NUC Product Catalog

October 2022



intel[®]

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Intel® NUC Roadmap – 1 of 2

Intel® NUC Products
Intel® NUC Element Products

2H'22		1H'23		2H'23		1H'24	SEGMENT
Q4	Q1	Q2	Q3	Q4	Q1		
Intel® NUC 12 Extreme	Dragon Canyon (12 th Gen i9, i7, 65W ADL-S PCIe x16, 8L, Kit)						EXTREME
Intel® NUC 12 Extreme Compute Element	Eden Bay (12 th Gen i9, i7, 65W ADL-S)						
Intel® NUC 11 Extreme	Beast Canyon (11 th Gen i9K, i7, TGL-H, PCIe x16, 8L, Kit)						
Intel® NUC 11 Extreme Compute Element	Driver Bay (11 th Gen i9K, i7, TGL-H)						
Intel® NUC 9 Extreme	Ghost Canyon (9 th Gen i9K, i7, i5 CFL-HR, PCIe x16, 5L, Kit)						
Intel® NUC 9 Extreme Compute Element	Ghost Compute Element (9 th Gen i9K, i7, i5 CFL-HR)						
Intel® NUC 12 Enthusiast	Serpent Canyon (12 th Gen i7, ADL-H, Intel® Arc™ A770M Graphics, Mini PC, Kit)						ENTHUSIAST
Intel® NUC 11 Enthusiast	Phantom Canyon (11 th Gen i7, TGL-U, Nvidia RTX2060, 1.35L, Mini PC & Kit)						
Intel® NUC 12 Pro	Wall Street Canyon (Next Gen Core™ i7, i5, i3, 0.5 & 0.7L, Mini PC, Kit & Board)						PERFORMANCE
Intel® NUC 11 Pro	Tiger Canyon (11 th Gen i7, i5, i3, TGL-UP3, 0.5 & 0.7L, KIT & Board)						
Intel® NUC 11 Performance (Lite)	Panther Canyon Lite (11 th Gen i7, i5, i3 TGL-U, 0.5 & 0.7L, Kit)						
Intel® NUC 10 Performance	Frost Canyon (10 th Gen i7, i5, i3 CML-U, 0.5 & 0.7L, Kit)						
Intel® NUC 11 Essential	Atlas Canyon (Pentium Silver, Celeron JSL, 0.55L, Mini PC & Kit)						ESSENTIAL
Intel® NUC 7 Essential	June Canyon (Celeron GML, 0.7L, Mini PC & Kit)						

Intel® NUC Roadmap – 2 of 2

Intel® NUC Products
Intel® NUC Element Products

2H'22		1H'23		2H'23		1H'24	SEGMENT
Q4	Q1	Q2	Q3	Q4	Q1	▼	
Intel® NUC 12 Pro X	Dragon Canyon Pro (12 th Gen i9, i7 vPro™, ADL-S, PCIe x16, 8L, Kit)						PRO
Intel® NUC 9 Pro	Quartz Canyon (Xeon, i7 vPro™ CFL-HR, PCIe x16, 5.0L, Kit)						
Intel® NUC 9 Pro Compute Element (H-Series)	Quartz Compute Element (H-Series) (Xeon, i7 vPro™ CFL-HR)						
Intel® NUC 12 Pro	Wall Street Canyon (12 th Gen Core™ i7 vPro, i7, i5 vPro, i5, i3, 0.5 & 0.7L, Mini PC, Kit & Board)						
Intel® NUC 11 Pro	Tiger Canyon (11 th Gen Core™ i7 vPro, i7, i5 vPro, i5, i3 TGL-UP3, 0.5 & 0.7L, Kit & Board)						
Intel® NUC 12 Compute Element (U-Series)	Hard Bay Compute Element (12 th Gen Core™ i7 vPro, i7, i5 vPro, i5, i3, Celeron)						
Intel® NUC 11 Compute Element (U-Series)	Elk Bay Compute Element (11 th Gen Core™ i7 vPro, i7, i5 vPro, i5, i3, Celeron TGL-UP3)						
Intel® NUC 8 Compute Element (U-Series)	Chandler Bay Compute Element (8 th Gen Core™ i7 vPro, i7, i5 vPro, i5, i3, Pentium, Celeron WHL-U)						
Intel® NUC Pro Chassis Element (U-Series)	Fort Beach (Base, Video Capture & Audio)						
Intel® NUC 8 Rugged	Chaco Canyon (Celeron APL, 3.5" SBC, Kit & Board)						
Intel® NUC Rugged Chassis/Board Element (U-Series)	(Expandable, Dual LAN) Austin Beach						
Intel® NUC Rugged Chassis/Board Element (U-Series)	(Multi HDMI) Austin Beach						

Intel® NUC Board Roadmap

Intel® NUC Products
Intel® NUC Element Products

INTEL® NUC
BOARDS

2H'22	1H'23		2H'23		1H'24	
Q4	Q1	Q2	Q3	Q4	Q1	
Intel® NUC Board Element	Monster Cove Gen5 Board (PCIe-x16 Gen5)					ELEMENT-H
Intel® NUC Board Element	Monster Cove Gen4 Board (PCIe-x16 Gen4)					
Intel® NUC Rugged Board Element (Expandable)	Austin Beach Board Intel® NUC Rugged Board Element					ELEMENT-U
Intel® NUC Rugged Board Element (Dual LAN)	Austin Beach Board Intel® NUC Rugged Board Element					
Intel® NUC Rugged Board Element (Multi HDMI)	Austin Beach Board Intel® NUC Rugged Board Element					
Intel® NUC Board / Assembly Element	Butler Beach Intel® NUC Board, Assembly Element					
Intel® NUC Board / Assembly Element	Garden Beach Intel® NUC Board, Assembly Element					
Intel® NUC 12 Pro	Wall Street Canyon Board (12 th Gen Core™ i7 vPro, i7, i5 vPro, i5, i3)					PRO, RUGGED, ESSENTIALS
Intel® NUC 11 Pro	Tiger Canyon Board (11 th Gen Core™ i7 vPro, i7, i5 vPro, i5, i3)					
Intel® NUC 8 Rugged	Chaco Canyon Board (Celeron APL)					
Intel® NUC 11 Essential	Atlas Canyon Board (Celeron JSL)					

Intel® NUC Laptop Kit Roadmap

2H'22	1H'23		2H'23		1H'24	SEGMENT
Q4	Q1	Q2	Q3	Q4	Q1	▼
INTEL® NUC X15 LAPTOP KIT Alder County 15" Extreme T&L (12 th Gen i7 ADL-H, Intel® Arc™ A730M/A550M)						EXTREME
INTEL® NUC M15 LAPTOP KIT Rooks County 15" Performance T&L (12 th Gen i5/i7 ADL-P)						PERFORMANCE
INTEL® NUC P14E LAPTOP ELEMENT Camden County 14" Professional Modular T&L (Elk Bay-TGL + future Elements)						PRO

"Note: Left Edge indicates PRQ"

Intel® NUC Element

The Next Evolution of Modular Computing

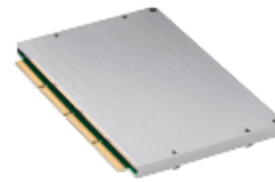
A Pluggable System-On-Module for U-series and H-series CPU Usages

- Just-in-time system building
- Lower inventory costs
- Custom solution with minimal R&D
- Easy upgrades and service
- Three-Year product availability and limited warranty
- Five-Year product availability for selected Icon Bay SKUs and Three-Year limited warranty

Choice of Processors:

- U-Series: Intel® Core™ i7/i5/i3 processors; Intel® Core™ vPro® i7/i5 processors; Pentium and Celeron processors
- H-Series: Intel® Xeon® processors; Intel® Core™ i9/i7 processors; Intel® Core™ vPro® i7/i5 processors

U-Series Target Usage Scenarios



Smart Screens
(Digital Signage, Kiosks)



Modular Compute
(AIO, Laptops, Mini PCs)

H-Series Target Usage Scenarios



Gaming
(AAA Gaming, Streaming)



Workstation
(CAD, Content Creation)

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Intel® NUC Element U Board & Chassis Compatibility

		Element U		
		Chandler Bay	Elk Bay	Hard Bay
Carrier Board/Chassis	Austin Beach - <i>Expandable</i>	YES ¹		
	Austin Beach - <i>Dual LAN</i>	YES ¹		
	Austin Beach - <i>Multi HDMI</i>	YES ¹		NO
	Butler Beach	YES ¹		YES ¹
	Fort Beach	YES ¹	YES	
	Garden Beach	NO	YES ²	
	Camden County	NO	YES ²	

¹ Carrier Board or Element limited to 15W TDP

² Element and/or Carrier Board/Chassis supports TBT

Intel® NUC 12 Compute Element (U-Series)

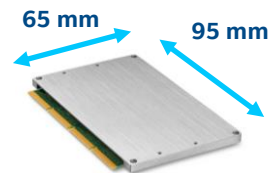
"Hard Bay"

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	<p>12th Generation Intel® Core™ i7-1265U Intel® Iris® X^e Graphics, Intel® vPro® Technology 10 Processor Cores (2P+8E), 12 threads, 12MB L3 Cache, 12W ~ 28W TDP (P-Cores: Up to 4.8GHz Turbo; E-Cores: Up to 3.6GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i7-1255U Intel® Iris® X^e Graphics 10 Processor Cores (2P+8E), 12 threads, 12MB L3 Cache, 12W ~ 28W TDP (P-Cores: Up to 4.7GHz Turbo; E-Cores: Up to 3.5GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i5-1245U Intel® Iris® X^e Graphics, Intel® vPro® Technology 10 Processor Cores (2P+8E), 12 threads, 12MB L3 Cache, 12W ~ 28W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i5-1235U Intel® Iris® X^e Graphics 10 Processor Cores (2P+8E), 12 threads, 12MB L3 Cache, 12W ~ 28W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i3-1215U Intel® UHD Graphics 6 Processor Cores (2P+4E), 8 threads, 10MB L3 Cache, 12W ~ 28W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)</p>
	<p>Intel® Celeron® 7305 Intel® UHD Graphics 5 Processor Cores (1P+4E), 5 threads, 8MB L3 Cache, 12W ~ 15W TDP</p>

- Intel® Wi-Fi 6E AX211 soldered-down, 802.11ax 2x2 2.4Gbps w/ 6GHz + Bluetooth® 5.2
- 4GB to 32GB soldered-down LPDDR5 memory (2 RAM configs per CPU)
(dual-channel memory on all SKUs except Celeron 4GB which is single-channel)
- Discrete TPM 2.0 device (on SKUs with Intel® vPro™ Enterprise only)
- Compatible with Windows 11, Windows 10
- Compatible with various Linux distros
- Supported by [Intel® NUC Pro Software Suite](#) (select carriers only)
- I/O supported by the card-edge consolidated connector:
 - 4x USB 3.2 Gen2
 - 3x USB 2.0
 - 4x display interfaces
 - DDI-A: configurable as eDP 1.4b / DP 1.4a / HDMI 2.1 TMDS Compatible (4k@60Hz)
 - DDI-B: configurable as DP 1.4a / HDMI 2.1 TMDS Compatible (4k@60Hz)
 - DDI-TCP1: configurable as DP 1.4a / HDMI 2.1 TMDS Compatible (4k@60Hz)
 - TCP2: configurable as Type C port (DDI/TBT/USB4)
 - 1x GbE PHY
 - 1x PCIe x4/SATA
 - 1x PCIe x4 (Gen4)
 - 1x PCIe x1
 - 1x HD Audio
 - I2C, ISH I2C, ISH GPIO
 - eSPI (EC interface)
- Support for up to **quad 4k@60Hz displays** (on SKUs with Intel® Core™ processors)
- Generation agnostic heat-spreader thermal interface
- Supports integration in to both stationary and mobile system designs
- **Module dimensions: 95 x 65 x 6 mm**
- No moving parts
- **Qualified for 24x7 operation**
- **Three-Year product availability**
- **Three-Year limited warranty**



Intel® NUC 12 Compute Element (U-Series)

"Hard Bay"

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Hard Bay Compute Element Ordering Codes

Product Code	MM#	Processor	RAM
BELM12HBv732W	99ANMH	12th Gen vPro™ Core™ i7-1265U	32GB LPDDR5
BELM12HBv716W	99ANN6	12th Gen vPro™ Core™ i7-1265U	16GB LPDDR5
BELM12HBi732W	99ANN7	12th Gen Core™ i7-1255U	32GB LPDDR5
BELM12HBi716W	99ANNC	12th Gen Core™ i7-1255U	16GB LPDDR5
BELM12HBv516W	99ANNF	12th Gen vPro™ Core™ i5-1245U	16GB LPDDR5
BELM12HBv508W	99ANNG	12th Gen vPro™ Core™ i5-1245U	8GB LPDDR5
BELM12HBi516W	99ANNH	12th Gen Core™ i5-1235U	16GB LPDDR5
BELM12HBi508W	99ANNJ	12th Gen Core™ i5-1235U	8GB LPDDR5
BELM12HBi316W	99ANNM	12th Gen Core™ i3-1215U	16GB LPDDR5
BELM12HBi308W	99ANNN	12th Gen Core™ i3-1215U	8GB LPDDR5
BELM12HBCE08W	99ANNP	12th Gen Celeron 7305	8GB LPDDR5
BELM12HBCE04W	99ANNR	12th Gen Celeron 7305	4GB LPDDR5

Intel® NUC 11 Compute Element (U-Series)

"Elk Bay"

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intel.
CORE
vPRO
i7

11th Generation Intel® Core™ i7-1185G7
Intel® Iris™ Xe Graphics, Intel® vPro® Technology
3.0GHz@28W ~ 1.2GHz@15W, up to 4.8GHz Turbo
4 Cores, 8 Threads, 12MB L3 Cache, 4267MT/s LPDDR4x

intel.
CORE
i7

11th Generation Intel® Core™ i7-1165G7
Intel® Iris™ Xe Graphics
2.8GHz@28W ~ 1.2GHz@15W, up to 4.7GHz Turbo
4 Cores, 8 Threads, 12MB L3 Cache, 4267MT/s LPDDR4x

intel.
CORE
vPRO
i5

11th Generation Intel® Core™ i5-1145G7
Intel® Iris™ Xe Graphics, Intel® vPro® Technology
2.6GHz@28W ~ 1.1GHz@15W, up to 4.4GHz Turbo
4 Cores, 8 Threads, 8MB L3 Cache, 4267MT/s LPDDR4x

intel.
CORE
i5

11th Generation Intel® Core™ i5-1135G7
Intel® Iris™ Xe Graphics
2.4GHz@28W ~ 0.9GHz@15W, up to 4.2GHz Turbo
4 Cores, 8 Threads, 8MB L3 Cache, 4267MT/s LPDDR4x

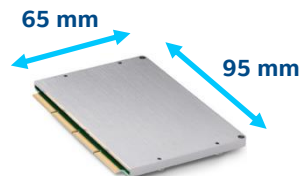
intel.
CORE
i3

11th Generation Intel® Core™ i3-1115G4
Intel® UHD Graphics
3.0GHz@28W ~ 1.7GHz@15W, up to 4.1GHz Turbo
2 Cores, 4 Threads, 6MB L3 Cache, 3733MT/s LPDDR4x

intel.
CELERON

Intel® Celeron® 6305
Intel® UHD Graphics
1.8GHz@15W
2 Cores, 2 Threads, 4MB L3 Cache, 3733MT/s LPDDR4x

- Intel® Wi-Fi 6 AX201 soldered-down, 802.11ax 2x2 2.4Gbps + Bluetooth® 5.2
- 4GB to 16GB soldered-down, dual-channel LPDDR4X memory on Core™ SKUs
- Discrete TPM 2.0 device (on SKUs with Intel® vPro™ only)
- Windows 11, Windows 10 & Linux operating systems supported
- Supported by [Intel® NUC Pro Software Suite](#) (select carriers only)
- I/O supported by the card-edge consolidated connector:
 - 4x USB 3.2 Gen2
 - 3x USB 2.0
 - 2x DDI (configurable as DP 1.4a or HDMI 2.0b)
 - 1x Type C (DDI/TBT/USB4)
 - 1x eDP 1.4b
 - 1x GbE PHY
 - 1x PCIe x4/SATA
 - 1x PCIe x4 (Gen4)
 - 1x PCIe x1
 - 1x HD Audio
 - eSPI (EC interface)
- Support for up to **quad 4k@60Hz displays** (triple DDI plus eDP interfaces) on SKUs with Intel® Core™ processors
- Generation agnostic heat-spreader thermal interface
- Supports integration in to both stationary and mobile system designs
- **Module dimensions: 95 x 65 x 6 mm**
- No moving parts
- **Qualified for 24x7 operation**
- **Three-Year product availability**
- **Three-Year limited warranty**



Intel® NUC 11 Compute Element (U-Series)

"Elk Bay"

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Elk Bay Compute Element Ordering Codes

Product Code	MM#	Processor	RAM
BKCM11EBv716W	99A8FM	11 th Gen vPro™ Core™ i7-1185G7	16GB LPDDR4X
BKCM11EBi716W	99A8FP	11 th Gen Core™ i7-1165G7	16GB LPDDR4X
BKCM11EBv58W	99A8FR	11 th Gen vPro™ Core™ i5-1145G7	8GB LPDDR4X
BKCM11EBi58W	99A8FT	11 th Gen Core™ i5-1135G7	8GB LPDDR4X
BKCM11EBi38W	99A8FV	11 th Gen Core™ i3-1115G4	8GB LPDDR4X
BKCM11EBC4W	99A8FW	Celeron 6305	4GB LPDDR4X

Intel® NUC 8 Compute Element (U-Series)

"Chandler Bay"

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8th Generation Intel® Core™ i7-8665U (CM8v7CB)
1.9 GHz – 4.8 GHz Turbo, 4 Core, 8 Thread, 8MB Cache, **15W**
Intel® vPro® Technology, Intel® AMT, TPM 2.0
Intel® UHD Graphics 620, 300 MHz - 1150 MHz



8th Generation Intel® Core™ i7-8565U (CM8i7CB)
1.8 GHz – 4.6 GHz Turbo, 4 Core, 8 Thread, 8MB Cache, **15W**
Intel® UHD Graphics 620, 300 MHz - 1150 MHz



8th Generation Intel® Core™ i5-8365U (CM8v5CB)
1.6 GHz – 4.1 GHz Turbo, 4 Core, 8 Thread, 6MB Cache, **15W**
Intel® vPro® Technology, Intel® AMT, TPM 2.0
Intel® UHD Graphics 620, 300 MHz - 1100 MHz



8th Generation Intel® Core™ i5-8265U (CM8i5CB)
1.6 GHz – 3.9 GHz Turbo, 4 Core, 8 Thread, 6MB Cache, **15W**
Intel® UHD Graphics 620, 300 MHz - 1100 MHz



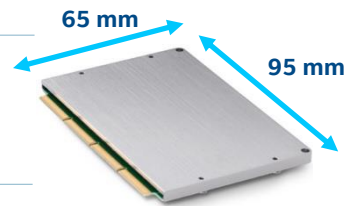
8th Generation Intel® Core™ i3-8145U (CM8i3CB)
2.1 GHz – 3.9 GHz Turbo, 2 Core, 4 Thread, 4MB Cache, **15W**
Intel® UHD Graphics 620, 300 MHz - 1000 MHz



Intel® Pentium® Gold 5405U (CM8PCB)
2.3 GHz, 2 Core, 4 Thread, 2MB Cache, **15W**
Intel® UHD Graphics 610, 300 MHz - 950 MHz



Intel® Celeron® 4305U (CM8CCB)
2.2 GHz, 2 Core, 2 Thread, 2MB Cache, **15W**
Intel® UHD Graphics 610, 300 MHz - 900 MHz



- Intel® Wireless-AC 9560 soldered-down, 802.11ac 2x2 1.73Gbps + Bluetooth® 5.1
- **4GB to 8GB** soldered-down, dual-channel memory
- Discrete TPM 2.0 device (on SKUs with Intel® vPro® Technology only)
- **Select SKUs with 64GB** eMMC Storage
- Windows 11, Windows 10 & Linux operating systems supported
- **Supported by Intel® NUC Pro Software Suite** (select carriers only)
- I/O supported by the card-edge consolidated connector:
 - 4x USB 3.2 Gen2
 - 3x USB 2.0
 - 2x DDI (configurable as DP/HDMI)
 - 1x eDP
 - 1x GbE PHY
 - 1x PCIe x4/SATA
 - 1x PCIe x4
 - 1x PCIe x1
 - 1x HD Audio
 - eSPI (EC interface)
- Support for up to triple 4k@60Hz displays (2x DDI plus eDP interfaces)
- **Generation agnostic heat-spreader thermal interface**
- Supports integration into both stationary and mobile system designs
- **Module dimensions: 95 x 65 x 6 mm**
- No moving parts
- **Qualified for 24x7 operation**
- **Three-Year product availability**
- **Three-Year limited warranty**

Intel® NUC 8 Compute Element (U-Series)

"Chandler Bay"

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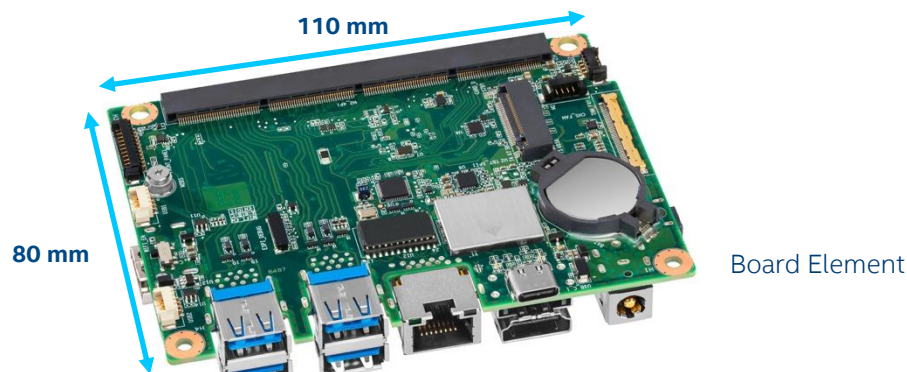
Chandler Bay Compute Element Ordering Codes

Product Code	MM#	Processor	RAM	Storage
BKCM8v7CB8N	999MCK	8th Gen vPro™ Core™ i7-8665U	8GB LPDDR3	None
BKCM8i7CB8N	999MCL	8th Gen Core™ i7-8565U	8GB LPDDR3	None
BKCM8v5CB8N	999M05	8th Gen vPro™ Core™ i5-8365U	8GB LPDDR3	None
BKCM8i5CB8N	999M06	8th Gen Core™ i5-8265U	8GB LPDDR3	None
BKCM8i3CB4N	999M07	8th Gen Core™ i3-8145U	4GB LPDDR3	None
BKCM8PCB4R	999M08	Pentium Gold 5405U	4GB LPDDR3	64GB eMMC
BKCM8CCB4R	999M09	Celeron 4305U	4GB LPDDR3	64GB eMMC

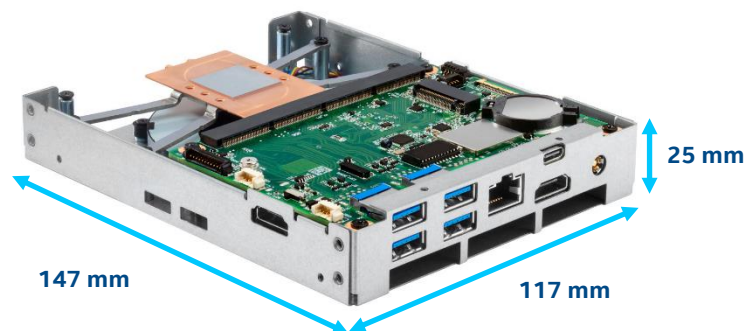
Intel® NUC Board/Assembly Element (U-series)

Support for Intel® NUC Compute Element

All [Elk Bay](#), [Hard Bay](#), and [Icon Bay](#) Compute Elements are supported in Garden Beach.



Board Element



Assembly:
Board with Thermal Solution

- Requires 11th Gen (and future) Intel® NUC Compute Element
- The receiving connector supports the following Intel® NUC Compute Elements:
 - All SKUs of Elk Bay - Intel® NUC 11 Compute Element (U-Series)
 - All SKUs of Hard Bay - Intel® NUC 12 Compute Element (U-Series)
 - All SKUs of Icon Bay - Intel® NUC x Compute Element (U-Series)
- Included carrier board connectors:
 - 4x USB 3.2 Gen2 type A
 - 2x USB 2.0 internal headers
 - 1x front panel control internal header
 - 1x Thunderbolt™ 4 (incl. DP and USB4) via back panel type C connector
 - 2x HDMI 2.0b (1 external, 1 internal)
 - 1x eDP internal header
 - 1x RJ-45 Gigabit Ethernet port w/ dual LEDs
 - 1x M.2 22x80 PCIe x4 Gen4 slot
 - 2x PWM internal fan headers (Compute Element fan, System fan)
 - DC power input external jack
 - DC power input internal 4-pin header
- Support for up to **quad 4k@60Hz** displays (dual HDMI 2.0b, plus DP via type C, eDP)
- Thermal solution support for **28W CPU TDP**
- Same board dimensions as original Butler Beach board: 110 x 80 mm
- Same full assembly dimensions as original Butler Beach assembly:
 - 117 x 147 x 25 mm
- **Qualified for 24x7 operation**
- **Three-Year product availability; Three-Year limited warranty**

Available SKUs

Assembly

I/O Board

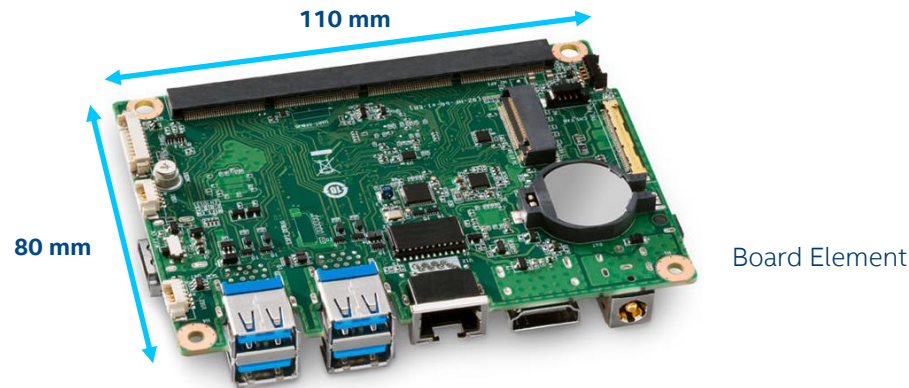
Intel® NUC Board/Assembly Element (U-series)

Garden Beach Board/Assembly Ordering Codes		
Product Code	MM#	Description
BKCMB2GB	99A8G1	Carrier Board only
BKCMA2GB	99A8G2	Carrier Board with Thermal Solution

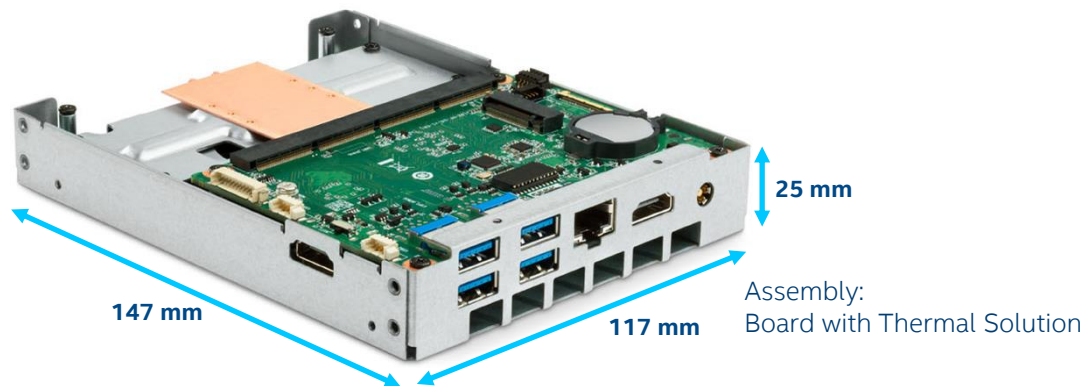
Intel® NUC Board/Assembly Element (U-series)

Support for Intel® NUC Compute Element

All Chandler Bay, Elk Bay, Hard Bay, and Icon Bay Compute Elements are supported in Butler Beach



Board Element



Assembly:
Board with Thermal Solution

- **Requires Intel® NUC Compute Element**
- The receiving connector supports the following Intel® NUC Compute Elements:
 - All SKUs of Chandler Bay - Intel® NUC 8 Compute Element (U-Series)
 - All SKUs of Elk Bay - Intel® NUC 11 Compute Element (U-Series)
 - ¹All SKUs of Hard Bay - Intel® NUC 12 Compute Element (U-Series)
 - ¹All SKUs of Icon Bay - Intel® NUC x Compute Element (U-Series)
- Included carrier board connectors:
 - 4x USB 3.2 Gen2 type A
 - 2x USB 2.0 internal headers
 - 1x front panel control internal header
 - 2x HDMI 2.0a (1 external, 1 internal)
 - 1x eDP internal header
 - 1x RJ-45 Gigabit Ethernet port w/ dual LEDs
 - 1x M.2 22x80 PCIe x4 w/SATA slot
 - 2x PWM internal fan headers (Compute Element fan, System fan)
 - DC power input external jack
 - DC power input internal 4-pin header
- Support for up to triple 4k@60Hz displays (dual HDMI 2.0a plus eDP connectors)
- Thermal solution support for **15W CPU TDP**
- Board dimensions: 110 x 80 mm
- Full assembly dimensions: 117 x 147 x 25 mm
- **Qualified for 24x7 operation**
- **Three-Year product availability**
- **Three-Year limited warranty**

Available SKUs

Assembly

I/O Board

¹ Carrier Board or Element limited to 15W TDP

Intel® NUC Board/Assembly Element (U-series)

Butler Beach Board/Assembly Ordering Codes

Product Code	MM#	Description
BKCMB1BB	999M8T	Carrier Board only
BKCMA1BB	999M9F	Carrier Board with Thermal Solution

Intel® NUC Rugged Board Element (U-series)

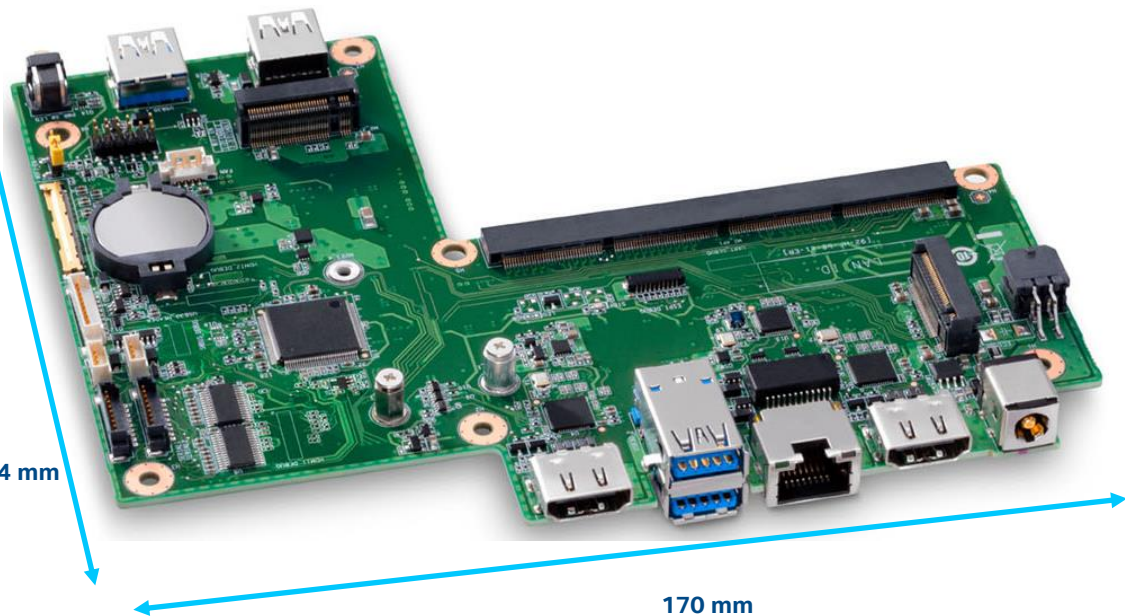
"Austin Beach Expandable" Board

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Support for Intel® NUC Compute Element

All [Chandler Bay](#), [Elk Bay](#), [Hard Bay](#), and [Icon Bay](#) Compute Elements are supported in the Austin Beach Expandable board.



- Requires Intel® NUC Compute Element
- Design implementation: **Expandable** (CMB1ABA)
- **Dual M.2 22x80 key M** slots for PCIe x4 NVMe and SATA SSDs
- **Two HDMI 2.0a** ports with **built-in CEC**, plus internal **4-lane eDP** interface
 - Support for dual 4k@60Hz via HDMI 2.0a, plus additional 4k@60 via eDP
- **Intel® Optane™ Memory H10 with Solid State Storage** ready
- **Intel® i219-LM** Gigabit Ethernet port
- 1x front and 2x rear **USB 3.2 Gen2** type A ports, 1x internal USB 3.2 Gen 1 header
- 1x front type A and 2x internal USB 2.0 headers
- 2x **RS232** serial port headers
- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; DC overvoltage protection**
- **Display emulation** (headless display, virtual display, persistent displays)
- 12 – 24V_{DC} rear jack, internal 2x2 power connector
- Board dimensions: 170 x 136.4 mm
- Microsoft Windows 10, Windows 10 IOT Enterprise, compatible with various Linux distros
- 5-pack bulk packaging
- **Three-Year product availability**
- **Three-Year limited warranty**

Available SKUs

Mini PC

Kit

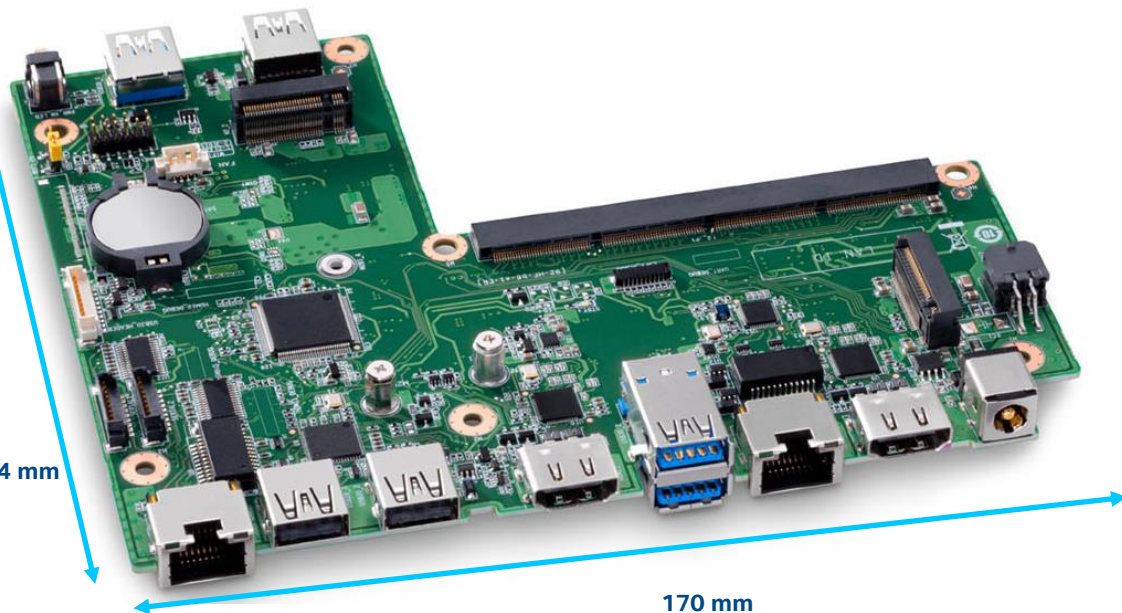
Chassis & Board

Board

Intel® NUC Rugged Board Element (U-series)

Support for Intel® NUC Compute Element

All [Chandler Bay](#), [Elk Bay](#), [Hard Bay](#), and [Icon Bay](#) Compute Elements are supported in the Austin Beach Dual LAN board.



- Requires Intel® NUC Compute Element
- Design implementation: **Dual LAN** (CMB1ABB)
- **Dual M.2 22x80 key M** slots for PCIe x4 NVMe and SATA SSDs
- **Two HDMI 2.0a** ports with **built-in CEC**
 - Support for dual 4k@60Hz via HDMI 2.0a
- **Intel® Optane™ Memory H10 with Solid State Storage** ready
- **2x Gigabit Ethernet ports: Intel® i219-LM and Intel® i211-AT**
- 1x front and 2x rear **USB 3.2 Gen2** type A ports, 1x internal USB 3.2 Gen 1 header
- 1x front and 2x rear type A USB 2.0 ports
- 2x **RS232** serial port headers
- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; DC overvoltage protection**
- **Display emulation** (headless display, virtual display, persistent displays)
- 12 – 24V_{DC} rear jack, internal 2x2 power connector
- Board dimensions: 170 x 136.4 mm
- Microsoft Windows 10, Windows 10 IOT Enterprise, compatible with various Linux distros
- 5-pack bulk packaging
- **Three-Year product availability**
- **Three-Year limited warranty**

Available SKUs

Mini PC

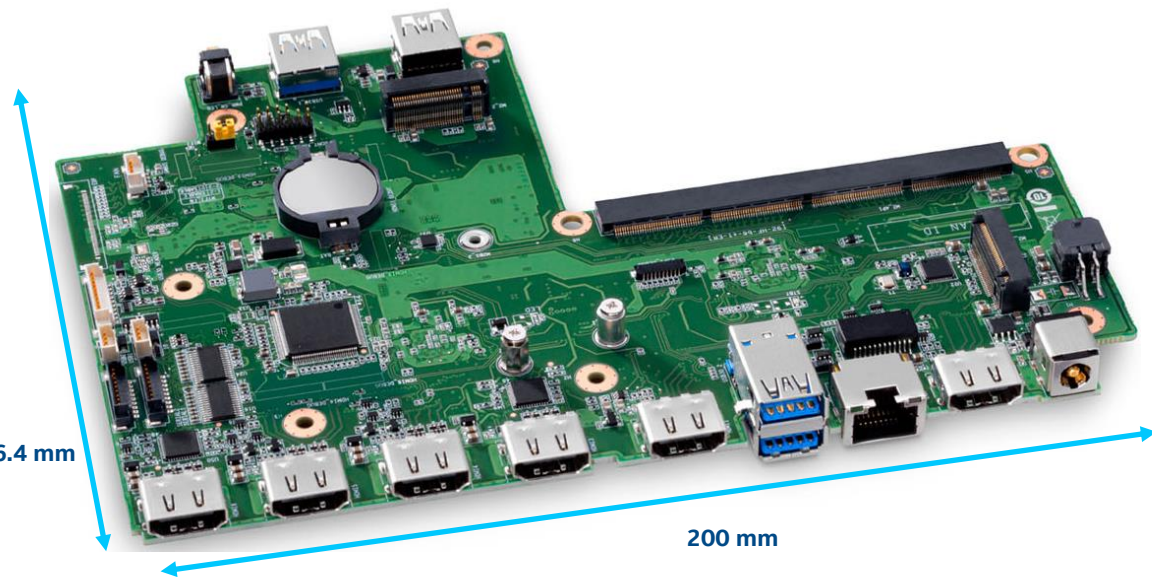
Kit

Chassis & Board

Board

Intel® NUC Rugged Board Element (U-series)

Support for Intel® NUC Compute Element
All [Chandler Bay](#) and [Elk Bay](#) Compute Elements are supported in the Austin Beach Multi HDMI board.



- Requires Intel® NUC Compute Element
- Design implementation: **Multi HDMI** (CMB1ABC)
- **Dual M.2 22x80 key M** slots for PCIe x4 NVMe and SATA SSDs
- **Six HDMI ports** (2x HDMI 2.0a, 4x HDMI 1.4) with **built-in CEC for all ports**
 - Support for dual 4k@60Hz or dual triple-wide 5760x1080 screens
- **Intel® Optane™ Memory H10 with Solid State Storage** ready
- **Intel® i219-LM** Gigabit Ethernet port
- 1x front and 2x rear **USB 3.2 Gen2** type A ports, 1x internal USB 3.2 Gen 1 header
- 1x front type A and 2x internal USB 2.0 headers
- 2x **RS232** serial port headers
- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; DC overvoltage protection**
- **Display emulation** (headless display, virtual display, persistent displays)
- 12 – 24V_{DC} rear jack, internal 2x2 power connector
- Board dimensions: 200 x 136.4 mm
- Microsoft Windows 10, Windows 10 IOT Enterprise, compatible with various Linux distros
- 5-pack bulk packaging
- **Three-Year product availability**
- **Three-Year limited warranty**

Available SKUs

<input type="radio"/> Mini PC	<input type="radio"/> Kit	<input checked="" type="radio"/> Chassis & Board	<input type="radio"/> Board
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Intel® NUC Rugged Board Element (U-series)

Austin Beach Boards Ordering Codes

Product Code	MM#	Description
BKCMB1ABA	999M8C	Carrier Board: "Expandable"
BKCMB1ABB	999M8F	Carrier Board: "Dual LAN"
BKCMB1ABC	999M8M	Carrier Board: "Multi HDMI"

Intel® NUC 12 Extreme Compute Element (H-series)

"Eden Bay" Compute Element

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12th Generation Intel® Core™ i9-12900

Up to 5.1 GHz Turbo Boost Max 3.0, 8P+8E cores, 24 threads, 30MB Intel Smart Cache

Intel® UHD Graphics 770

Up to 1.55 GHz

Intel® vPro® Technology



12th Generation Intel® Core™ i7-12700

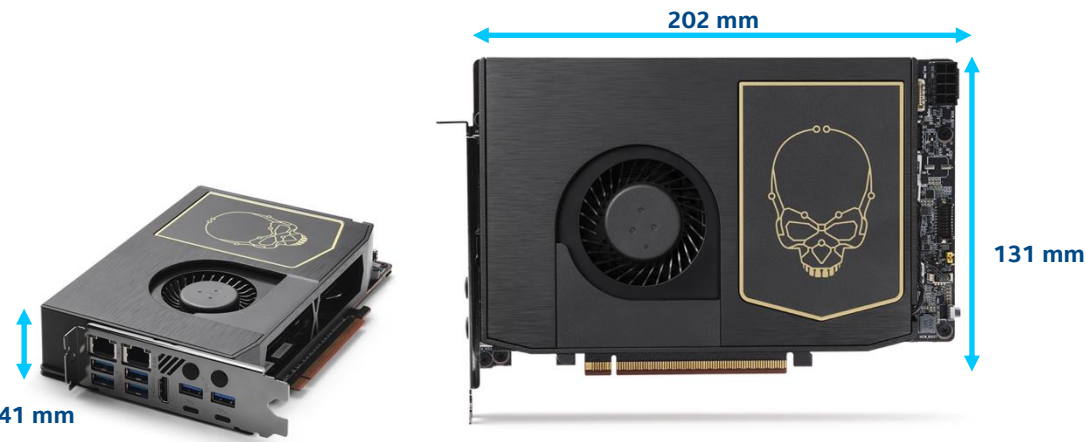
Up to 4.9 GHz Turbo Boost Max 3.0, 8P+4E cores, 20 threads, 25MB Intel Smart Cache

Intel® UHD Graphics 770

Up to 1.50 GHz

Intel® vPro® Technology

- Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max
 - ECC RAM supported on NUC 12 Pro X SKUs
- PCIe 5.0 x16 Gold Finger
- 3x M.2 key M slots:
 - 1x 80 CPU-attached PCIe x4 Gen4 NVMe
 - 2x 42/80 PCH-attached PCIe x4 Gen4 NVMe or SATA3 SSD
 - RAID-0 and RAID-1 capable
- Intel® Optane™ SSD and Intel® Optane™ Memory M10, H10, and H20 ready
- HDMI 2.1 TMDS Compatible connector (up to 4K60)
- 2x Thunderbolt™ 4 ports
- Supports Three 4K displays (Intel® UHD Graphics)
- Intel® 2.5 Gb Ethernet (i225-LM) port on select SKUs
- 10 Gb Ethernet (AQC113) port
- Intel® Wi-Fi 6E AX211, 802.11ax 2x2 2.4Gbps w/ 6GHz + Bluetooth® v5.2 (5.3 capable), dual internal antennas, in M.2 2230 key E slot
- 6x USB 3.2 Gen2 Type-A connectors
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- 2x USB 3.2 Gen2 ports via Type-C Key B header
- USB 3.2 Gen2 Type-C port via Type-C Key A header
- 2x USB 2.0 headers
- Microsoft Windows* 11 logo'd, compatible w/ Windows Server 2019; compatible w/ various Linux distros
- Individual retail or bulk packaging
- Three-Year limited warranty



Available SKUs



Intel® NUC 12 Extreme Compute Element (H-series)

Eden Bay Compute Element Ordering Codes (Retail Packaging)

Product Code	MM#	Ethernet	Processor
BNUC12EDBi90000	99AWTX	10 Gb + Intel® i225-LM	12 th Generation Core™ i9-12900
BNUC12EDBi70000	99AWTZ	10 Gb	12 th Generation Core™ i7-12700

Intel® NUC 11 Extreme Compute Element (H-series)



11th Generation Intel® Core™ i9-11900KB

Up to 4.9 GHz Turbo Boost Max 3.0, 8 cores, 16 threads, 24MB Cache, 65W
Intel® UHD Graphics, 350 MHz – 1.45 GHz



11th Generation Intel® Core™ i7-11700B

Up to 4.8 GHz Turbo Boost Max 3.0, 8 cores, 16 threads, 24MB Cache, 65W
Intel® UHD Graphics, 350 MHz – 1.45 GHz



Product Dimensions:
321 x 258 x 82 mm

- Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max
- PCIe 4.0 x16 Gold Finger
- 3x M.2 key M slots:
 - 1x 80 CPU-attached PCIe x4 Gen4 NVMe
 - 2x 42/80 PCH-attached PCIe x4 Gen3 NVMe or SATA3 SSD
 - RAID-0 and RAID-1 capable
- Intel® Optane™ SSD and Intel® Optane™ Memory M10, H10, and H20 ready
- HDMI 2.0b connector
- 2x Thunderbolt™ 4 ports
- Supports Three 4K displays (Intel® UHD Graphics)
- Intel® 2.5 Gb Ethernet (i225-LM) port
- Intel® Wi-Fi 6E AX210, 802.11ax 2x2 2.4Gbps w/ 6GHz + Bluetooth® v5.2 (5.3 capable), dual internal antennas, in M.2 2230 key E slot
- 6x USB 3.2 Gen2 Type-A connectors
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- 2x USB 3.2 Gen2 ports via Type-C Key B header
- USB 3.2 Gen2 Type-C port via Type-C Key A header
- 2x USB 2.0 headers
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible w/ various Linux distros
- Individual retail or bulk packaging
- Three-Year limited warranty

Available SKUs



Intel® NUC 11 Extreme Compute Element (H-series)

Driver Bay Compute Element Ordering Codes (Bulk Packaging)

Product Code	MM#	Processor
BNUC11DBBi90000	99A8X3	11 th Generation Core™ i9-11900KB
BNUC11DBBi70000	99A8X5	11 th Generation Core™ i7-11700B

Driver Bay Compute Element Ordering Codes (Retail Packaging)

Product Code	MM#	Processor
RNUC11DBBi90000	99A8X2	11 th Generation Core™ i9-11900KB
RNUC11DBBi70000	99A8X4	11 th Generation Core™ i7-11700B

Intel® NUC 9 Extreme Compute Element (H-series)



9th Generation Intel® Core™ i9-9980HK (NUC9i9QN)
2.40 GHz – 5.00 GHz Turbo, 8 core, 16 thread, 16MB Intel Smart Cache, 65W
Intel® UHD Graphics 630, 350 MHz – 1.25 GHz

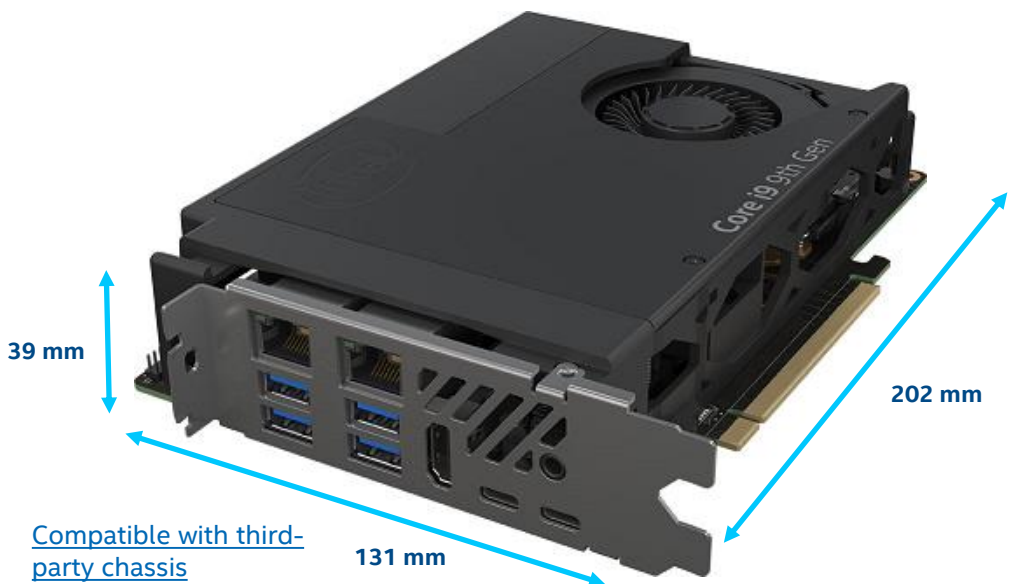


9th Generation Intel® Core™ i7-9750H (NUC9i7QN)
2.60 GHz – 4.50 GHz Turbo, 6 core, 12 thread, 12 MB Intel Smart Cache, 65W
Intel® UHD Graphics 630, 350 MHz – 1.15 GHz



9th Generation Intel® Core™ i5-9300H (NUC9i5QN)
2.40 GHz – 4.10 GHz Turbo, 4 core, 8 thread, 8 MB Intel Smart Cache, 65W
Intel® UHD Graphics 630, 350 MHz – 1.05 MHz

- Dual-channel DDR4 SODIMM slots, 1.2V, max 64GB @ 2666MHz
- PCIe 3.0 x16 Gold Finger
- 2x M.2 key M slots: 42/80 + 42/80/110 PCH-attached PCIe x4 Gen3 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable
- Intel® Optane™ SSD and Intel® Optane™ Memory M10 and H10 ready
- HDMI 2.0a connector
- 2x Thunderbolt™ 3 ports
- Supports Three 4K displays (Intel® UHD Graphics)
- 2x Intel® Gigabit (i219-LM and i210-AT) Ethernet ports
- Intel® Wi-Fi 6 AX200, 802.11ax 2x2 2.4Gbps + Bluetooth® v5.2, dual internal antennas
- 4x USB 3.2 Gen2 Type-A connectors
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- 3.5mm rear speaker / TOSLINK combo jack
- Internal Front Panel, Audio, CEC, SATA ribbon cable headers
- 2x USB 3.2 Gen2 ports via Type-C Key B header
- 2x USB 2.0 headers
- 202 x 131 x 39 mm
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible with Windows Server 2019
- Individual bulk packaging
- Three-Year limited warranty



Available SKUs

PC Kit Chassis Compute Element

Intel® NUC 9 Extreme Compute Element (H-series)

Ghost Canyon Compute Element Ordering Codes

Product Code	MM#	Processor
BKNUC9i9QNB	999LWZ	9th Generation Core™ i9-9980HK
BKNUC9i7QNB	999LX0	9th Generation Core™ i7-9750H
BKNUC9i5QNB	999LX1	9th Generation Core™ i5-9300H

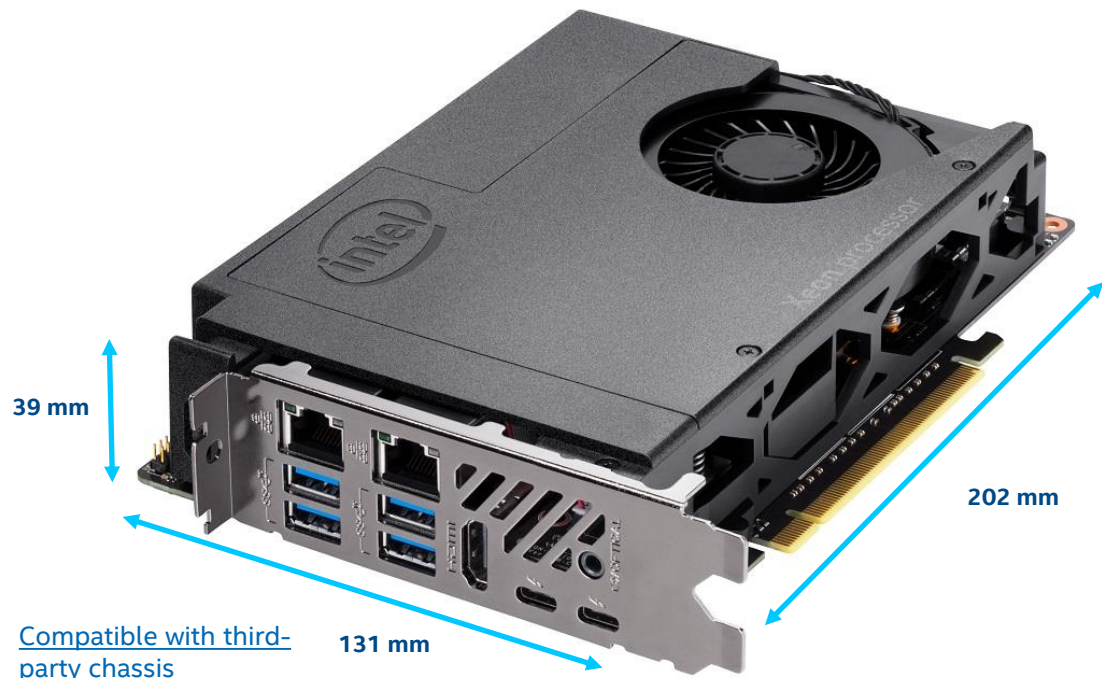
Intel® NUC 9 Pro Compute Element (H-series)



Intel® Xeon® E-2286M Processor (NUC9VXQN)
2.4 GHz – 5.0 GHz Turbo, 8 Core, 16 thread, 16MB Intel Smart Cache, 60W
Intel® UHD Graphics P630, 350 MHz - 1250 MHz
Intel® vPro® Technology, Intel® AMT



9th Generation Intel® Core™ i7-9850H (NUC9V7QN)
2.6 GHz – 4.6 GHz Turbo, 6 Core, 12 thread, 12MB Cache, 60W
Intel® UHD Graphics 630, 350 MHz - 1150 MHz
Intel® vPro® Technology, Intel® AMT



- Dual-channel DDR4 SODIMM slots, 1.2V, max 64GB @ 2666MHz, ECC Memory Support (Xeon only)
- PCIe 3.0 x16 Gold Finger
- 2x M.2 key M slots: 42/80 + 42/80/110 PCH-attached PCIe x4 Gen3 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable
- Intel® Optane™ SSD and Intel® Optane™ Memory M10 and H10 ready
- Discrete TPM 2.0
- Runtime BIOS Resilience with Dynamic Attestation
- HDMI 2.0a connector
- 2x Thunderbolt™ 3 ports
- Supports Three 4K displays (Intel® UHD Graphics)
- 2x Intel® Gigabit (i219-LM and i210-AT) Ethernet ports
- Intel® Wi-Fi 6 AX200 802.11ax 2x2 2.4Gbps, WiAMT + Bluetooth® v5.2, dual internal antennas
- 4x USB 3.2 Gen2 Type-A connectors
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- 3.5mm rear speaker / TOSLINK combo jack
- Internal Front Panel, Audio, CEC, SATA ribbon cable headers
- 2x USB 3.2 Gen2 ports via Type-C Key B header
- 2x USB 2.0 headers
- 202 x 131 x 39 mm
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible with Windows Server 2019
- Individual retail packaging
- Three-Year product availability, Three-Year limited warranty

Available SKUs

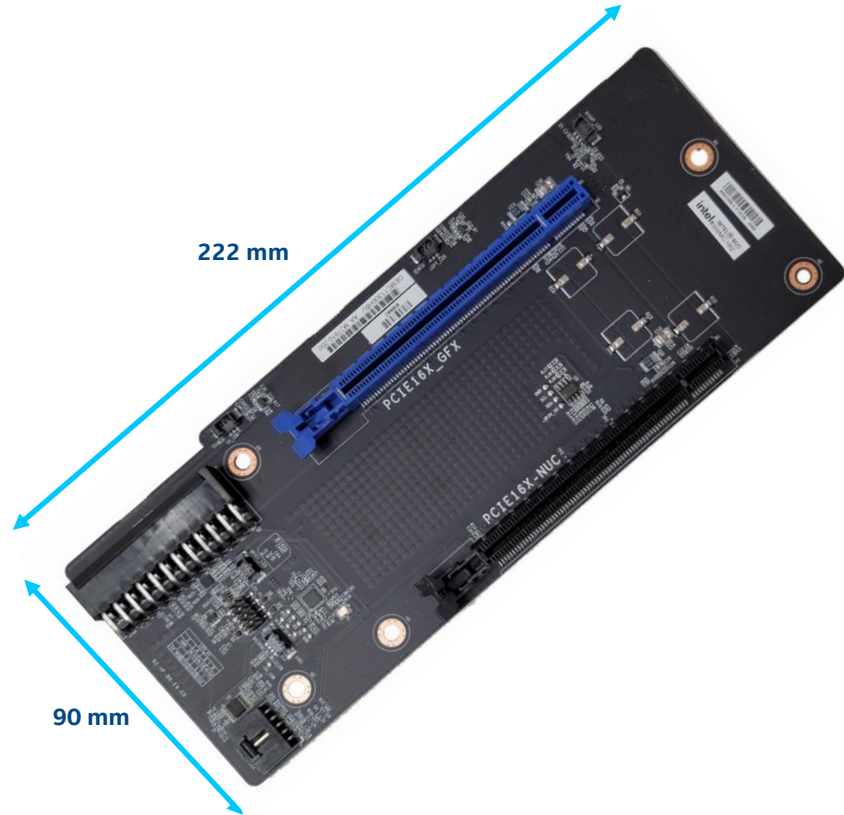
PC Kit Chassis Compute Element

Intel® NUC 9 Pro Compute Element (H-series)

Quartz Canyon Compute Element Ordering Codes

Product Code	MM#	Processor
BKNUC9VXQNB	999LX2	Xeon® E-2286M
BKNUC9V7QNB	999LX3	9 th Generation Core™ i7-9850H

Intel® NUC Board Element (H-series)

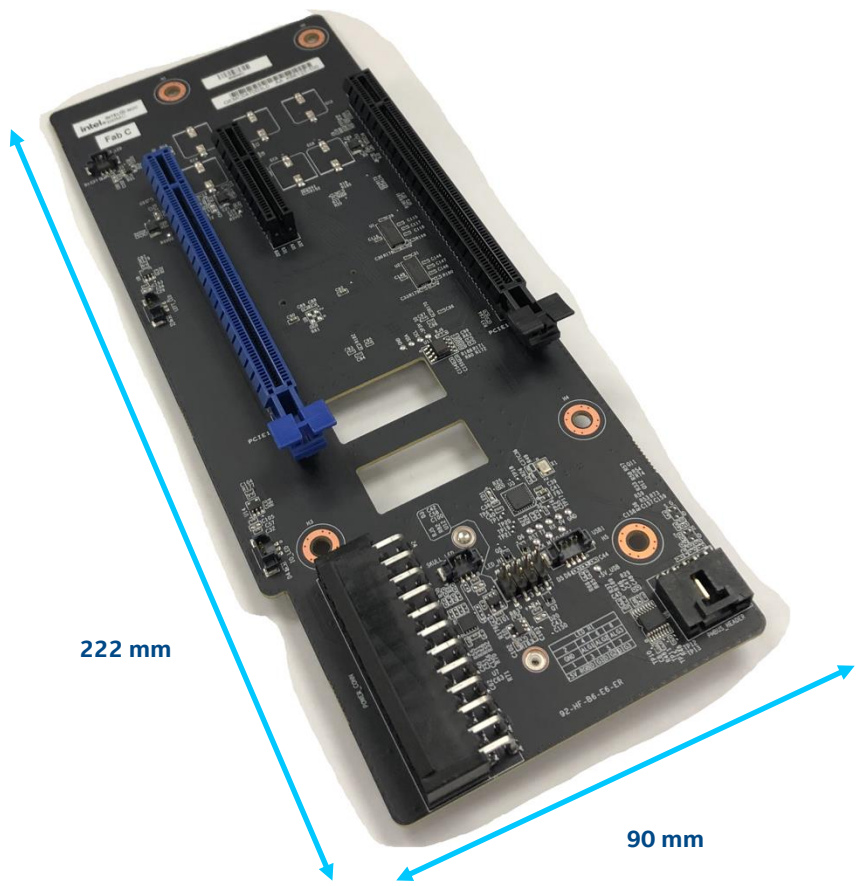


- **Compatible with H Series NUC Compute Elements**
 - Including Eden Bay, and Driver Bay Compute Elements
- **1x PCIe 5.0 x16 slot**
 - **Black PCIe x16** for NUC Compute Element
 - **Blue PCIe x16** for Add-On Card
- **222 x 90 mm**
- **4 independently controlled addressable RGB headers**
- **24pin Standard ATX PSU Compatibility**
- **Three-Year limited warranty**

Intel® NUC Board Element (H-series)

Monster Cove Gen5 Board Element Ordering Codes	
Product Code	MM#
BKBBMC1B2	99ALD6

Intel® NUC Board Element (H-series)



- **Compatible with H Series NUC Compute Elements**
 - Including Driver Bay, Quartz Canyon, and Ghost Canyon Compute Elements
- **2x PCIe 4.0 x16 slot**
 - **Black PCIe x16** for NUC Compute Element
 - **Blue PCIe x16** for Add-On Card
- **PCIe 4.0 x4 open-ended slot**
- **PCIe 4.0 x4 M.2 slot (underside)**
- **222 x 90 mm**
- **4 independently controlled addressable RGB headers**
- **24pin Standard ATX PSU Compatibility**
- **Three-Year limited warranty**

Intel® NUC Board Element (H-series)

Monster Cove Gen4 Board Element Ordering Codes	
Product Code	MM#
BKBBMC1B1	99A8X8

Intel® NUC Extreme

Upgradeable Powerhouse Mini PC with Discrete Graphics

- Intel® Core™ i9K/i7/i5 processors
- Supports 12" and 8" desktop dual or triple-slot graphics cards*
- Integrated discrete graphics processors*
- Triple M.2 SSD support*
- Upgradeable Compute Element board*
- Uncompromised performance

*Varies by product

Target Usage Scenarios



Gaming



Streaming



Content
Creation



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Intel® NUC 12 Extreme

“Dragon Canyon”

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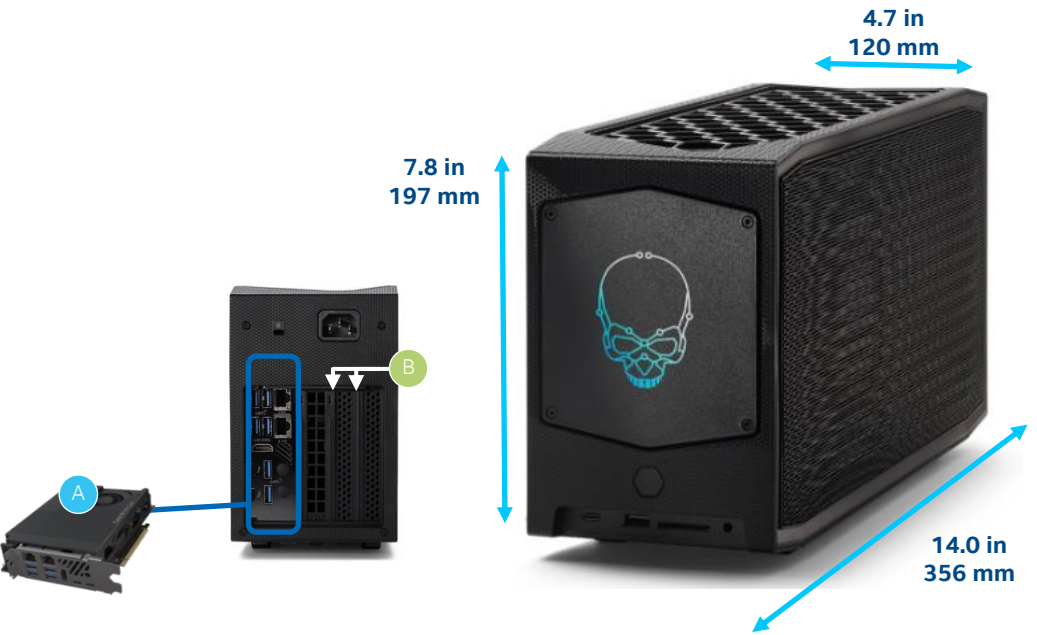


12th Generation Intel® Core™ i9-12900
Up to 5.1 GHz Turbo Boost Max 3.0, 8P+8E cores, 24 threads,
30MB Intel Smart Cache
Intel® UHD Graphics 770 Up to 1.55 GHz
Intel® vPro® Technology



12th Generation Intel® Core™ i7-12700
Up to 4.9 GHz Turbo Boost Max 3.0, 8P+4E cores, 20 threads,
25MB Intel Smart Cache
Intel® UHD Graphics 770 Up to 1.50 GHz
Intel® vPro® Technology

- A** Pre-installed **Eden Bay Compute Element**:
 - Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max
 - 3x M.2 key M slots: 42/80 CPU-attached PCIe X4 Gen4 NVMe, 2x 42/80 PCH-attached PCIe x4 Gen4 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable
 - Intel® Optane™ SSD and Intel® Optane™ Memory M10, H10, and H20 ready
 - HDMI 2.1 TMDS Compatible connector (up to 4K60)
 - 2x Thunderbolt™ 4 ports
 - Supports Three 4K displays (Intel® UHD Graphics)
 - Intel® 2.5 Gb (i225-LM) on select SKUs
 - 10 Gb Ethernet (AQC113)
 - Intel® Wi-Fi 6E AX211, 802.11ax 2x2 2.4Gbps w/ 6GHz + Bluetooth® v5.2 (5.3 capable), dual internal antennas, in M.2 2230 slot
 - 6x USB 3.2 Gen2 Type-A connectors (rear)
 - Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
 - 2x USB 2.0 headers
- Dragon Canyon chassis:
 - B** PCIe X16 Gen5 slot with 8 pin & 2x6+2-pin PCIe power connectors, up to 350W, up to 12" card length, dual-slot capable
 - SDXC slot with UHS-II support
 - 1x USB 3.2 Gen2 Type-A (front)
 - 1x USB 3.2 Gen2 Type-C (front)
 - 3.5mm front stereo headset jack
 - Plastic with metal inner frame, Kensington lock with panel security
 - 356 x 197 x 120 mm (~8L volume)
 - 650W 80+ Gold internal power supply with geo-specific C13 AC cords
 - All-around customizable RGB lighting with user-replaceable RGB-backlit front logo
- Microsoft Windows* 11 logo'd, compatible w/ Windows Server 2019; compatible w/ various Linux distros
- Individual retail packaging
- Three-Year limited warranty



Available SKUs

PC | Kit | Chassis | Compute Element

Intel® NUC 12 Extreme

“Dragon Canyon”

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Dragon Canyon Kit Ordering Codes

Product Code	MM#	AC Cord (C13)	Ethernet	Processor
Dragon Canyon Kit – NUC12DCMi9				
RNUC12DCMi90000	99ALGD	None	10 Gb + Intel® i225-LM	12 th Generation Core™ i9-12900
RNUC12DCMi90001	99ALGF	US		
RNUC12DCMi90002	99ALGG	EU		
RNUC12DCMi90003	99ALGL	UK		
RNUC12DCMi90004	99ALGM	AU		
RNUC12DCMi90006	99ALGN	CN		
Dragon Canyon Kit – NUC12DCMi7				
RNUC12DCMi70000	99ALGP	None	10 Gb	12 th Generation Core™ i7-12700
RNUC12DCMi70001	99ALGR	US		
RNUC12DCMi70002	99ALGV	EU		
RNUC12DCMi70003	99ALGW	UK		
RNUC12DCMi70004	99ALGX	AU		
RNUC12DCMi70006	99ALGZ	CN		

Eden Bay Compute Element Ordering Codes (Retail Packaging)

Product Code	MM#	Ethernet	Processor
BNUC12EDBi90000	99AWTX	10 Gb + Intel® i225-LM	12 th Generation Core™ i9-12900
BNUC12EDBi70000	99AWTZ	10 Gb	12 th Generation Core™ i7-12700

Monster Cove Gen5 Board Element Ordering Code

Product Code	MM#
BKBBMC1B2	99ALD6

Intel® NUC 11 Extreme

"Beast Canyon"

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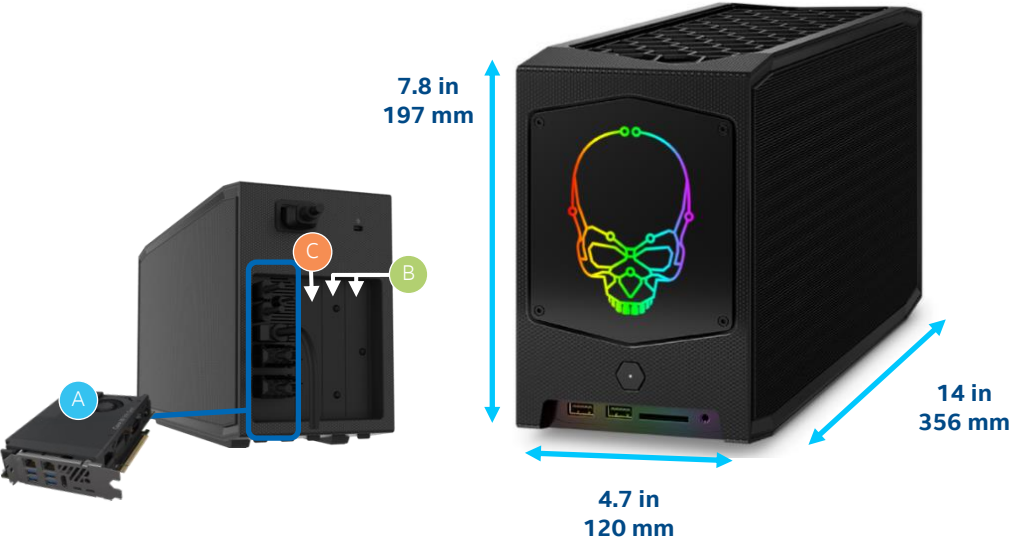


11th Generation Intel® Core™ i9-11900KB
Up to 4.9 GHz Turbo Boost Max 3.0, 8 cores, 16 threads, 24MB Cache, 65W
Intel® UHD Graphics, 350 MHz – 1.45 GHz



11th Generation Intel® Core™ i7-11700B
Up to 4.8 GHz Turbo Boost Max 3.0, 8 cores, 16 threads, 24MB Cache, 65W
Intel® UHD Graphics, 350 MHz – 1.45 GHz

Beast Canyon



- Pre-installed **Driver Bay Compute Element**:
 - **Dual-channel DDR4-3200 SODIMM slots**, 1.2V, 64GB max
 - **3x M.2 key M slots**: 2280 **CPU-attached PCIe X4 Gen4** NVMe, 2x 2242/80 PCH-attached PCIe x4 Gen3 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable
 - **Intel® Optane™ SSD and Intel® Optane™ Memory M10, H10, and H20** ready
 - **HDMI 2.0b** connector
 - **2x Thunderbolt™ 4** ports
 - **Supports Three 4K displays** (Intel® UHD Graphics)
 - **Intel® 2.5 Gb (i225-LM) Ethernet Port**
 - **Intel® Wi-Fi 6E AX210**, 802.11ax 2x2 2.4Gbps w/ 6GHz + Bluetooth® v5.2 (5.3 capable), dual internal antennas
 - **6x USB 3.2 Gen2** Type-A connectors (rear)
 - Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
 - USB 3.2 Gen2 Type-C port via Type-C Key A header
 - 2x USB 2.0 headers
- Beast Canyon chassis:
 - **PCIe X16 Gen4** slot with 8 pin & 2x6+2-pin PCIe power connectors, up to 350W, up to 12" card length, dual-slot capable
 - **PCIe X4 Gen4** slot – Pre-installed air-duct may need to be removed for slot operation.
 - **CPU-attached M.2 slot** 42/80/110 **PCIe X4 Gen4**, **Intel® Optane™ SSD** ready
 - **SDXC slot with UHS-II** support
 - **2x USB 3.2 Gen2** Type-A (front)
 - 3.5mm front stereo headset jack
 - Plastic with metal inner frame, Kensington lock with panel security
 - **356 x 197 x 120 mm (~8L volume)**
 - **650W 80+ Gold internal power supply** with geo-specific C13 AC cords
 - All-around customizable RGB lighting with user-replaceable RGB-backlit front logo
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible w/ various Linux distros
- Individual retail packaging
- **Three-Year limited warranty**

Available SKUs

PC | Kit | Chassis | Compute Element

Intel® NUC 11 Extreme

"Beast Canyon"

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Beast Canyon Kit Ordering Codes

Product Code	MM#	AC Cord (C13)	Processor
Beast Canyon Kit – NUC11BTMi9			
RNUC11BTMi90000	99A8V9	None	11 th Generation Core™ i9-11900KB
RNUC11BTMi90001	99A8VA	US	
RNUC11BTMi90002	99A8VC	EU	
RNUC11BTMi90003	99A8VF	UK	
RNUC11BTMi90004	99A8VG	AU	
RNUC11BTMi90006	99A8VH	CN	
Beast Canyon Kit – NUC11BTMi7			
RNUC11BTMi70000	99A8VJ	None	11 th Generation Core™ i7-11700B
RNUC11BTMi70001	99A8VK	US	
RNUC11BTMi70002	99A8VL	EU	
RNUC11BTMi70003	99A8VM	UK	
RNUC11BTMi70004	99A8VN	AU	
RNUC11BTMi70006	99A8VP	CN	

Driver Bay Compute Element Ordering Codes (Bulk Packaging)

Product Code	MM#	Processor
BNUC11DBBi90000	99A8X3	11 th Generation Core™ i9-11900KB
BNUC11DBBi70000	99A8X5	11 th Generation Core™ i7-11700B

Driver Bay Compute Element Ordering Codes (Retail Packaging)

Product Code	MM#	Processor
RNUC11DBBi90000	99A8X2	11 th Generation Core™ i9-11900KB
RNUC11DBBi70000	99A8X4	11 th Generation Core™ i7-11700B

Monster Cove Board Element Ordering Code

Product Code	MM#
BKBBMC1B1	99A8X8

Intel® NUC 9 Extreme

"Ghost Canyon"

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9th Generation Intel® Core™ i9-9980HK (NUC9i9QN)

2.40 GHz – 5.00 GHz Turbo, 8 core, 16 thread,
16MB Intel Smart Cache, **65W**
Intel® UHD Graphics 630, 350 MHz – 1.25 GHz



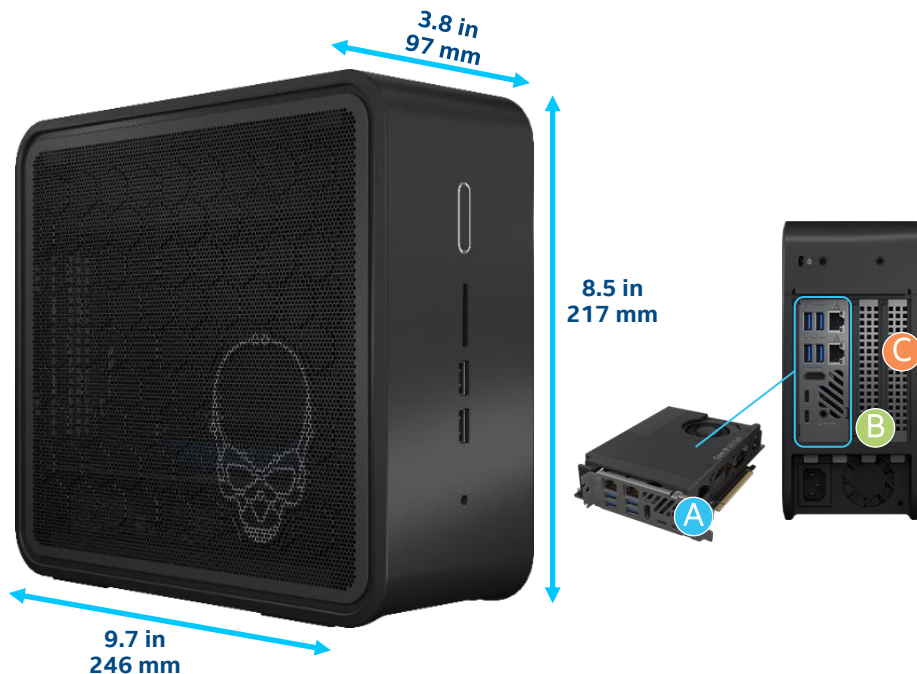
9th Generation Intel® Core™ i7-9750H (NUC9i7QN)

2.60 GHz – 4.50 GHz Turbo, 6 core, 12 thread,
12 MB Intel Smart Cache, **65W**
Intel® UHD Graphics 630, 350 MHz – 1.15 GHz



9th Generation Intel® Core™ i5-9300H (NUC9i5QN)

2.40 GHz – 4.10 GHz Turbo, 4 core, 8 thread,
8 MB Intel Smart Cache, **65W**
Intel® UHD Graphics 630, 350 MHz – 1.05 MHz



A Pre-installed Ghost Canyon Compute Element:

- Dual-channel DDR4 SODIMM slots, 1.2V, max **64GB** @ 2666MHz
- 2x M.2 key M slots: 42/80 + 42/80/110 PCH-attached PCIe x4 Gen3 NVMe or SATA3 SSD, **RAID-0** and **RAID-1** capable
- Intel® Optane™ SSD and Intel® Optane™ Memory M10 and H10 ready
- HDMI 2.0a connector
- 2x Thunderbolt™ 3 ports
- Supports Three 4K displays (Intel® UHD Graphics)
- 2x Intel® 10/100/1000 Mbps (i219-LM and i210-AT) Ethernet ports
- Intel® Wi-Fi 6 AX200, 802.11ax 2x2 2.4Gbps + Bluetooth® v5.2, dual internal antennas
- 4x USB 3.2 Gen2 Type-A connectors (rear)
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- 3.5mm rear speaker / TOSLINK combo jack
- Internal Front Panel, Audio, CEC, 2x USB 2.0 headers
- Ghost Canyon chassis:
 - B PCIe X16 slot with 6+2-pin & 8-pin PCIe power connectors, up to 225W, up to 8" card length, dual-slot capable
 - C PCIe X4 slot
 - CPU-attached M.2 slot 42/80/110 PCIe X4 Gen3, Intel® Optane™ SSD ready
 - SDXC slot with UHS-II support
 - 2x USB 3.2 Gen2 Type-A (front)
 - 1x USB 3.2 Gen2 Type-A (internal) connector
 - 3.5mm front stereo headset jack
 - Plastic with metal inner frame, Kensington lock with panel security
 - Chassis dimensions: 238 x 216 x 96 mm (5L volume)
 - 500W internal power supply with geo-specific C13 AC cords
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible w/ Windows Server 2019 and Linux
- Individual retail packaging
- Three-Year limited warranty

Available SKUs



Intel® NUC 9 Extreme

Ghost Canyon Kit Ordering Codes

Product Code	MM#	AC Cord (C13)	Processor
Ghost Canyon Kit – NUC9i9QNX			
BXNUC9i9QNX	999DNT	None	9 th Generation Core™ i9-9980HK
BXNUC9i9QNX1	999DNV	US	
BXNUC9i9QNX5	99A6DN	IN	
BXNUC9i9QNX6	999DP1	CN	
Ghost Canyon Kit – NUC9i7QNX			
BXNUC9i7QNX	999DP4	None	9 th Generation Core™ i7-9750H
BXNUC9i7QNX1	999DP5	US	
BXNUC9i7QNX5	99A6DM	IN	
BXNUC9i7QNX6	999DP9	CN	
Ghost Canyon Kit – NUC9i5QNX			
BXNUC9i5QNX	999DPA	None	9 th Generation Core™ i5-9300H
BXNUC9i5QNX1	999DPC	US	
BXNUC9i5QNX5	99A6DK	IN	
BXNUC9i5QNX6	999DPH	CN	

Compute Element Ordering Codes

Product Code	MM#	Processor
Ghost Canyon Compute Element – NUC9i9QNB		
BKNUC9i9QNB	999LWZ	9 th Generation Core™ i9-9980HK
Ghost Canyon Compute Element – NUC9i7QNB		
BKNUC9i7QNB	999LX0	9 th Generation Core™ i7-9750H
Ghost Canyon Compute Element – NUC9i5QNB		
BKNUC9i5QNB	999LX1	9 th Generation Core™ i5-9300H

Note: An alternate plain panel set for Intel® NUC 9 Extreme is available (partners pay only for shipping & handling) and can be ordered from this website: <https://www.gorite.com/nuc9i-panels>

Intel® NUC Enthusiast

Our smallest Mini PC for gaming

- Intel® Core™ i7, i5 processors
- Includes third-party discrete graphics*
- Supports up to six 4K displays*
- Thunderbolt™ Technology
- Space saving at 1.2L to 2.5L volume
- RGB-backlit user replaceable mask*

*Varies by product

Target Usage Scenarios



Gaming



Streaming



Content
Creation



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Intel® NUC 12 Enthusiast

"Serpent Canyon"

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intel.
CORE
i7

12th Generation Intel® Core™ i7-12700H

Up to 4.7 GHz Turbo Boost Max, 6P+8E cores, 20 threads, 24MB Intel Smart Cache
Intel® Iris™ Xe Graphics eligible Up to 1.40 GHz

Intel® Arc™ A770M Graphics w/ 16GB GDDR6

intel
ARC
GRAPHICS



- Intel® Arc™ A770M Graphics
 - HDMI 2.1 TMDS Compatible port (up to 4K60)
 - 2x DisplayPort 2.0 (1.4 certified) ports
- Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max
- 2x M.2 22x80 PCIe x4 Gen4 NVMe and 1x M.2 22x80 PCIe x4 Gen3 NVMe or SATA3 SSD
- Front and rear Thunderbolt™ 4 / USB4 Type-C ports with 5V/9V fast charging profiles
- Intel® 2.5 Gb Ethernet (i225-LM) port
- Intel® Killer™ Wi-Fi 6E AX1690i, 802.11ax 2x2 3.0 Gbps w/ 6GHz & DCT + Bluetooth® 5.2 (5.3 capable), with internal antennas
- 2x front, 4x rear USB 3.2 Gen2 ports, and 2x USB 2.0 via internal headers
- SDXC slot with UHS-II support
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- 3.5mm front stereo headset jack, 3.5mm rear speaker / TOSLINK combo jack
- Beam-forming, dual-mic array
- Front Consumer Infrared port
- Plastic with metal inner frame, replaceable lid, Kensington lock with base security
- 230 x 180 x 60 mm (~2.5L volume)
- 19V_{DC} 330W power supply with geo-specific C13 AC cords
- Common I/O header with Front Panel, CEC, 2x USB2.0 signals
- RGB-backlit top logo, with user-replaceable mask
- Microsoft Windows* 11 logo'd, compatible with various Linux distros
- Vertical stand included
- Individual retail packaging
- Three-Year limited warranty

intel
KILLER
Wi-Fi 6E
AX1690

Available
SKUs

Mini PC

Kit

Chassis

Board

Intel® NUC 12 Enthusiast

"Serpent Canyon"

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Serpent Canyon Mini PC Ordering Codes

Product Code	MM#	AC Cord (C13)	Processor	GPU	RAM	Storage	OS
Intel® NUC 12 Enthusiast Mini PC - NUC12SNK							
RNUC12SNKi72VAU	99C76X	US (USA customers only)	12 th Generation Core™ i7-12700H	Intel® Arc™ A770M Graphics w/ 16GB GDDR6	16GB (2x 8GB) DDR4-3200	1TB NVMe PCIe x4 Gen4	Windows® 11 Home
RNUC12SNKi72VA1	99C76Z	US (WW)					

Serpent Canyon Kit Ordering Codes

Product Code	MM#	AC Cord (C13)	Processor	GPU
Intel® NUC 12 Enthusiast Kit - NUC12SNKi7				
RNUC12SNKi72000	99AP6Z	None	12 th Generation Core™ i7-12700H	Intel® Arc™ A770M Graphics w/ 16GB GDDR6
RNUC12SNKi7200U	99AP70	US (USA customers only)		
RNUC12SNKi72001	99AP71	US (WW)		
RNUC12SNKi72002	99AP72	EU		
RNUC12SNKi72004	99AP73	AU		
RNUC12SNKi72006	99AP74	CN		

Intel® NUC 11 Enthusiast

"Phantom Canyon"

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11th Generation Intel® Core™ i7-1165G7
2.8 GHz – 4.7 GHz Turbo, 4 core, 8 thread 12MB Intel Smart Cache, 28W
Intel® Iris™ Xe Graphics, up to 1.3 GHz



- NVIDIA® GeForce® RTX2060 Discrete Graphics w/ 6GB GDDR6
 - HDMI 2.0b port
 - Mini DisplayPort 1.4 port
 - Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max
- M.2 22x80/110 PCIe x4 Gen3 NVMe and M.2 22x80 key M slots PCIe x4 Gen3 NVMe or SATA3 SSDs
- Intel® Optane™ Memory M10 and H10 ready
- Front and rear Thunderbolt™ 4 ports (Intel® Iris™ Xe Graphics) with 5V/9V fast phone charging profiles
- Intel® 2.5 Gb (i225-LM) Ethernet port
- Intel® Wi-Fi 6 AX201, 802.11ax 2x2 2.4Gbps + Bluetooth® 5.2, with internal antennas
- 2x front, 4x rear USB 3.2 Gen2 ports, and 2x USB 2.0 via internal headers
- SDXC slot with UHS-II support
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- 3.5mm front stereo headset jack, 3.5mm rear speaker / TOSLINK combo jack
- Beam-forming, far-field, quad-mic array, with Alexa support
- Front Consumer Infrared port
- Plastic with metal inner frame, replaceable lid, Kensington lock with base security
- 221 x 142 x 42 mm (~1.3L volume)
- 19V_{DC} 230W power supply with geo-specific C13 AC cords
- Common I/O header with Front Panel, CEC, 2x USB2.0 signals
- RGB-backlit top lid skull logo, with user-replaceable mask
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible with various Linux distros
- Vertical stand included
- Individual retail packaging
- Three-Year limited warranty

Available SKUs



Mini PC



Kit



Chassis



Board

Intel® NUC 11 Enthusiast

"Phantom Canyon"

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Phantom Canyon Mini PC Ordering Codes

Product Code	MM#	AC Cord (C13)	Processor	GPU	RAM	Storage	OS
Intel® NUC 11 Enthusiast Mini PC - NUC11PHKi7CA							
RNUC11PHKi7CAA0	99AC0M	None	11 th Generation Core™ i7-1165G7	Nvidia RTX2060 w/ 6GB GDDR6	16GB (2x 8GB) DDR4-3200	Intel® Optane™ Memory H10 (32GB + 512GB) Solid State Storage	Windows® 11 Home
RNUC11PHKi7CAA1	99AC0P	US					
RNUC11PHKi7CAA2	99AC0R	EU					
RNUC11PHKi7CAA6	99AC0X	CN					

Phantom Canyon Kit Ordering Codes

Product Code	MM#	AC Cord (C13)	Processor	GPU
Intel® NUC 11 Enthusiast Mini PC - NUC11PHKi7C				
RNUC11PHKi7C000	99AC0C	None	11 th Generation Core™ i7-1165G7	Nvidia RTX2060 w/ 6GB GDDR6
RNUC11PHKi7C001	99AC0D	US		
RNUC11PHKi7C002	99AC0F	EU		
RNUC11PHKi7C003	99AC0G	UK		
RNUC11PHKi7C004	99AC0H	AU		
RNUC11PHKi7C005	99AC0K	IN		
RNUC11PHKi7C006	99AC0L	CN		

Intel® NUC Performance

A customizable Mini PC with the Power of a Desktop PC

- Intel® Core™ i7, i5, i3 processors
- 8th, 10th, and 11th Gen options
- Up to Quadruple Display Support*
- Space saving from 0.35L to 0.7L volume
- Windows® 10 Home preinstalled*
- Up to 8K display support*
- Intel® Optane™ memory supported or preinstalled*

*Varies by product

Target Usage Scenarios



Home
Office



Home
Theater PC



Casual
Gaming



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Intel® NUC 12 Pro

“Wall Street Canyon”

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	12th Generation Intel® Core™ i7-1270P Intel® Iris® X ^e Graphics, Intel® vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 18MB L3 Cache, 35W TDP (P-Cores: Up to 4.8GHz Turbo; E-Cores : Up to 3.5GHz Turbo)
	12th Generation Intel® Core™ i7-1260P Intel® Iris® X ^e Graphics 12 Processor Cores (4P+8E), 16 threads, 18MB L3 Cache, 35W TDP (P-Cores: Up to 4.7GHz Turbo; E-Cores: Up to 3.4GHz Turbo)
	12th Generation Intel® Core™ i5-1250P Intel® Iris® X ^e Graphics, Intel® vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 12MB L3 Cache, 35W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)
	12th Generation Intel® Core™ i5-1240P Intel® Iris® X ^e Graphics 12 Processor Cores (4P+8E), 16 threads, 12MB L3 Cache, 35W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)
	12th Generation Intel® Core™ i3-1220P Intel® UHD Graphics 10 Processor Cores (2P+8E), 12 threads, 12MB L3 Cache, 20W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)



- **Up to Quad Extended Displays:**
 - Dual HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port
 - Dual Thunderbolt™ 4 ports (incl. DP 1.4a and USB4) via back panel type C connectors (select SKUs only)
- M.2 22x80 key M slot for **PCIe x4 Gen4 NVMe SSD**
- **M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability**
- **Intel® i225 10/100/1000/2500 Mbps** RJ45 Ethernet (i225-LM on vPro SKUs; i225-V on non-vPro SKUs) port
- **Support for 2nd LAN** (Intel® 2.5 GbE) and **2x additional USB 2.0 ports** via internal expansion option (tall kits only) [2nd LAN/USB expansion module to be available separately, not included with NUC]
- **Intel® Wi-Fi 6E AX211** (vPro & non-vPro) on M.2 slot, supporting 802.11ax and Bluetooth 5.2 w/internal antennas
- Dual-channel **DDR4-3200 SODIMM slots**, 1.2V, **64GB max.**
- Discrete TPM 2.0 (i7 vPro™ and i5 vPro™ SKUs only)
- 2x front and 1x rear **USB 3.2 Gen2** type A ports
- 1x rear type A and 2x internal USB 2.0 headers
- **All USB ports with individual USB power control**
- 3.5mm front stereo headset jack
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports (select SKUs only)
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; Auto CMOS reset; DC transient voltage suppression**
- **Display emulation (headless display, virtual display, persistent displays) via HDMI ports**
- **12 – 20V_{DC} ±5% DC input on rear jack, internal 2x2 power connector, with OVP/UVF**
- TDP settings for Core i5/i7 CPUs down-configurable to 20W
- **Matte textured chassis**, replaceable lid, Kensington lock with base security, Cable locking arm
 - Up to 40degC external ambient operating temperature tolerance
 - Power supply adapter (**120W/20V_{DC}** for Core i7, i5; **90W/19V_{DC}** for Core i3) with geo-specific AC cord (IEC C5)
 - VESA mounting plate included
 - Tall kits only: 2.5" drive bay (15mm SATA) and internal expansion bay via backpanel
- Dimensions: Board: 104 x 102 mm; “K” chassis: 117 x 112 x 37 mm; “H” chassis: 117 x 112 x 54 mm
- Microsoft Windows* 11, Windows 10 (logo'd), Windows 10 IOT Enterprise
- Compatible with various Linux distros
- Individual retail box packaging
- **Three-Year product availability, Three-Year limited warranty**

Available SKUs

Mini PC

Kit

Chassis

Board

Intel® NUC 11 Performance

"Panther Canyon Lite"

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intel.
CORE
i7

11th Generation Intel® Core™ i7-1165G7
2.8 GHz – 4.7 GHz Turbo, 4 core, 8 thread 12MB Intel Smart Cache, 28W
Intel® Iris™ Xe Graphics, up to 1.3 GHz

intel.
CORE
i5

11th Generation Intel® Core™ i5-1135G7
2.4 GHz – 4.2 GHz Turbo, 4 core, 8 thread 8MB Intel Smart Cache, 28W
Intel® Iris™ Xe Graphics, up to 1.3 GHz

intel.
CORE
i3

11th Generation Intel® Core™ i3-1115G4
3.0 GHz – 4.1 GHz Turbo, 2 core, 4 thread 6MB Intel Smart Cache, 28W
Intel® Iris™ Xe Graphics, up to 1.25 GHz



- Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max
- M.2 22x80 key M slot, PCIe x4 Gen4 NVMe or SATA3 SSDs
- HDMI 2.0b, Mini DisplayPort 1.4 ports
- Up to quad display, and 8K support
- Front and rear Thunderbolt™ 3 ports with 5V/9V fast phone charging profiles
- Intel® 2.5 Gb (i225-V) Ethernet port
- Intel® Wireless-AX 201, 802.11ax 2x2 2.4Gbps + Bluetooth® 5.2, with internal antennas
- 2x front, 2x rear USB 3.2 Gen2 ports, USB 3.2 Gen 1, USB 2.0 ports via internal headers
- SDXC slot with UHS-II support
- Up to 7.1 multichannel digital audio via HDMI, DisplayPort, or Thunderbolt™ 4 signals
- 3.5mm front stereo headset jack
- Front Consumer Infrared port
- Plastic with metal inner frame, replaceable lid, Kensington lock with base security
- "Tall" H chassis: 117 x 112 x 51 mm, w/ 2.5" 7mm SATA3 bay and port
- 19V_{DC} input, 120W (Core i7, i5) or 90W power supply with geo-specific C5 AC cords
- Front Panel, CEC, RGB LED, USB 3.2 Gen2, USB 2.0 internal headers
- Front panel status RGB LED
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible with various Linux distros
- VESA mounting plate included in kit SKUs only
- Individual retail packaging
- Three-Year limited warranty

Available
SKUs



Mini PC



Kit



Chassis



Board

Intel® NUC 11 Performance

"Panther Canyon Lite"

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Panther Canyon Lite L6 Kit Ordering Codes					
Product Code	MM#	AC Cord (C5)	Lid	Chassis	Processor
Panther Canyon Lite i7 Kits					
RNUC11PAHi70Z00	99AW85	None	Standard flat lid	Tall	11 th Generation Core™ i7-1165G7
RNUC11PAHi70Z01	99AW86	US			
RNUC11PAHi70Z02	99AW87	EU			
Panther Canyon Lite i5 Kits					
RNUC11PAHi50Z00	99AW89	None	Standard flat lid	Tall	11 th Generation Core™ i5-1135G7
RNUC11PAHi50Z01	99AW8G	US			
RNUC11PAHi50Z02	99AW8P	EU			
Panther Canyon Lite i3 Kits					
RNUC11PAHi30Z00	99AW96	None	Standard flat lid	Tall	11 th Generation Core™ i3-1115G4
RNUC11PAHi30Z01	99AW97	US			
RNUC11PAHi30Z02	99AW98	EU			

Intel® NUC 10 Performance

"Frost Canyon"

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10th Generation Intel® Core™ i7-10710U
1.1 GHz – 4.7 GHz Turbo, **6 core, 12 thread**, 12MB Intel Smart Cache, **25W**
Intel® UHD Graphics, 300 MHz – 1.15 GHz



10th Generation Intel® Core™ i5-10210U
1.6 GHz – 4.2 GHz Turbo, 4 core, 8 thread, 6MB Intel Smart Cache, **25W**
Intel® UHD Graphics, 300 MHz – 1.1 GHz



10th Generation Intel® Core™ i3-10110U
2.1 GHz – 4.1 GHz Turbo, 2 core, 4 thread, 4MB Intel Smart Cache, **25W**
Intel® UHD Graphics, 300 MHz – 1.0 GHz



- Dual-channel DDR4-2666 SODIMM slots, 1.2V, **64GB** maximum
- M.2 22x42/80 key M slot for PCIe x4 Gen3 NVMe or SATA3 SSD
- Intel® Optane™ Memory M10 and H10 ready
- HDMI 2.0a port and DisplayPort 1.2 via Thunderbolt™ 3 / USB-C™ port
- Supports three 4K displays
- Intel® i219-V Gigabit Ethernet port
- Intel® Wi-Fi 6 AX201, 802.11ax 2x2 2.4Gbps + Bluetooth® v5.2, internal antennas
- Front USB 3.2 Gen2 Type-C™ (5V fast phone charging profiles) and type-A ports
- 2x rear USB 3.2 Gen2, and 2x internal USB 2.0 via header
- Front Consumer Infrared port
- SDXC slot with UHS-II support
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- Plastic with metal inner frame, replaceable lid, Kensington lock with base security
- "Tall" H chassis: 117 x 112 x 51 mm, w/ **2.5" 7mm SATA3 bay and port**
- "Slim" K chassis: 117 x 112 x 38 mm
- 19V_{DC} input, **120W** (Core™ i7 only) or **90W** power supply with geo-specific C5 AC cords
- Front Panel, CEC, RGB LED, 2x USB2.0 headers
- Front panel status RGB LED
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd, compatible with various Linux distros
- VESA mounting plate included in kit SKUs only
- Individual retail packaging
- **Three-Year limited warranty**

Available SKUs

- Mini PC Kit Chassis Board

Intel® NUC 10 Performance

Frost Canyon L6 Kit Ordering Codes (without analog audio codec / line-out jack & digital mics)

Product Code	MM#	AC Cord (C5)	Chassis	Processor	
Frost Canyon i7 Kit – NUC10i7FN					
BXNUC10i7FNHN	99AHT9	No Cord	Tall	10 th Generation Core™ i7-10710U	
BXNUC10i7FNHN1	99AHTF	US			
BXNUC10i7FNHN2	99AHTG	EU			
BXNUC10i7FNHN3	99AHTK	UK			
BXNUC10i7FNKN1	99AHTW	US	Slim		
BXNUC10i7FNKN2	99AHV3	EU			
Frost Canyon i5 Kit – NUC10i5FN					
BXNUC10i5FNHN	99AHV4	No Cord	Tall		10 th Generation Core™ i5-10210U
BXNUC10i5FNHN1	99AHV5	US			
BXNUC10i5FNHN2	99AHV8	EU			
BXNUC10i5FNHN4	99AHV9	AU			
BXNUC10i5FNHN5	99AHVA	IN			
BXNUC10i5FNKN1	99AHVV	US	Slim		
BXNUC10i5FNKN2	99AHVW	EU			

Frost Canyon L6 Kit Ordering Codes (without analog audio codec / line-out jack & digital mics)

Product Code	MM#	AC Cord (C5)	Chassis	Processor
Frost Canyon i3 Kit – NUC10i3FN				
BXNUC10i3FNHN	99AHVZ	No Cord	Tall	10 th Generation Core™ i3-10110U
BXNUC10i3FNHN1	99AHW0	US		
BXNUC10i3FNHN2	99AHW1	EU		
BXNUC10i3FNHN3	99AHW4	UK		
BXNUC10i3FNHN5	99AHW5	IN		
BXNUC10i3FNKN1	99AHW7	US	Slim	
BXNUC10i3FNKN2	99AHWV	EU		

Intel® NUC Pro

Engineered For Your Business & Education Needs

- Based on Intel® Xeon, Intel® Core™ i7 vPro™, Core™ i5 vPro™ and Intel® Core™ i9, i7, i3 processors
- Five-Year and Three-Year product availability
- Space-saving designs
- Validated for 24/7 operation* and other industry-leading Intel reliability tests
- Functional lid designs, adding additional display and connectivity options

*Varies by product

Target Usage Scenarios



Visual
Solutions



SMB /
Education



Collaboration



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Intel® NUC 12 Pro X

"Dragon Canyon Pro"

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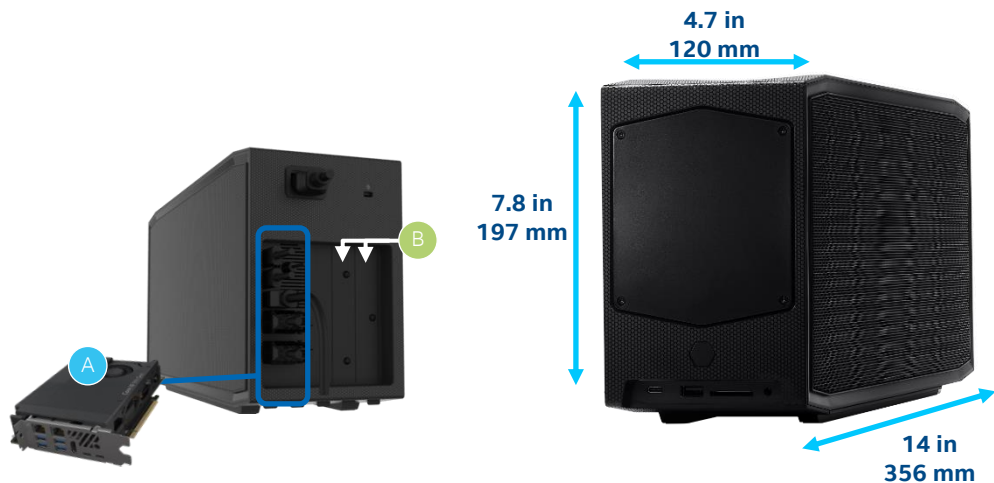
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12th Generation Intel® Core™ i9-12900
Up to 5.1 GHz Turbo Boost Max 3.0, 8P+8E cores, 24 threads,
30MB Intel Smart Cache
Intel® UHD Graphics 770 Up to 1.55 GHz
Intel® vPro® Technology



12th Generation Intel® Core™ i7-12700
Up to 4.9 GHz Turbo Boost Max 3.0, 8P+4E cores, 20 threads,
25MB Intel Smart Cache
Intel® UHD Graphics 770 Up to 1.50 GHz
Intel® vPro® Technology



- A** Pre-installed **Compute Element**:
 - Dual-channel DDR4-3200 SODIMM slots**, 1.2V, **64GB** max
 - ECC RAM supported
 - 3x M.2 key M slots**: 42/80 **CPU-attached PCIe X4 Gen4** NVMe, 2x 42/80 PCH-attached PCIe x4 Gen4 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable
 - Intel® Optane™ SSD and Intel® Optane™ Memory M10 and H10** ready
 - HDMI 2.1 TMDS Compatible** connector
 - 2x Thunderbolt™ 4** ports
 - Supports Three 4K displays** (Intel® UHD Graphics)
 - Intel® 2.5 Gb Ethernet (i225-LM) port**
 - 10 Gb Ethernet (AQC113) port**
 - Intel® Wi-Fi 6E AX211**, 802.11ax 2x2 2.4Gbps w/ 6GHz, WiAMT + Bluetooth® v5.2, dual internal antennas, in M.2 2230 slot
 - 6x USB 3.2 Gen2** Type-A connectors (rear)
 - Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
 - 2x USB 2.0 headers
- B** Dragon Canyon Pro chassis:
 - PCIe X16 Gen5** slot with 8 pin & 2x6+2-pin PCIe power connectors, up to 350W, up to 12" card length, dual-slot capable
 - SDXC slot with UHS-II** support
 - 1x USB 3.2 Gen2** Type-A (front)
 - 1x USB 3.2 Gen2** Type-C (front)
 - 3.5mm front stereo headset jack
 - Plastic with metal inner frame, Kensington lock with panel security
 - 356 x 197 x 120 mm (~8L volume)**
 - 650W 80+ Gold internal power supply** with geo-specific C13 AC cords
 - Front Panel customizable RGB user-replaceable backlit logo
- Microsoft Windows* 11, Microsoft Windows* 10 logo, compatible w/ Windows Server*; compatible w/ various Linux distros
- Individual retail packaging
- Three-Year limited warranty**

Available SKUs



Dragon Canyon Pro Kit Ordering Codes					
Product Code	MM#	AC Cord (C13)	TPM	Ethernet	Processor
Dragon Canyon Pro Kit – NUC12DCMv9					
BNUC12DCMv90000	99ALHW	None	WW	10 Gb + Intel® i225-LM	12 th Generation Core™ i9-12900
Dragon Canyon Pro Kit – NUC12DCMv7					
BNUC12DCMv70000	99ALJ4	None	WW	10 Gb + Intel® i225-LM	12 th Generation Core™ i7-12700

Monster Cove Gen5 Board Element Ordering Code	
Product Code	MM#
BKBBMC1B2	99ALD6

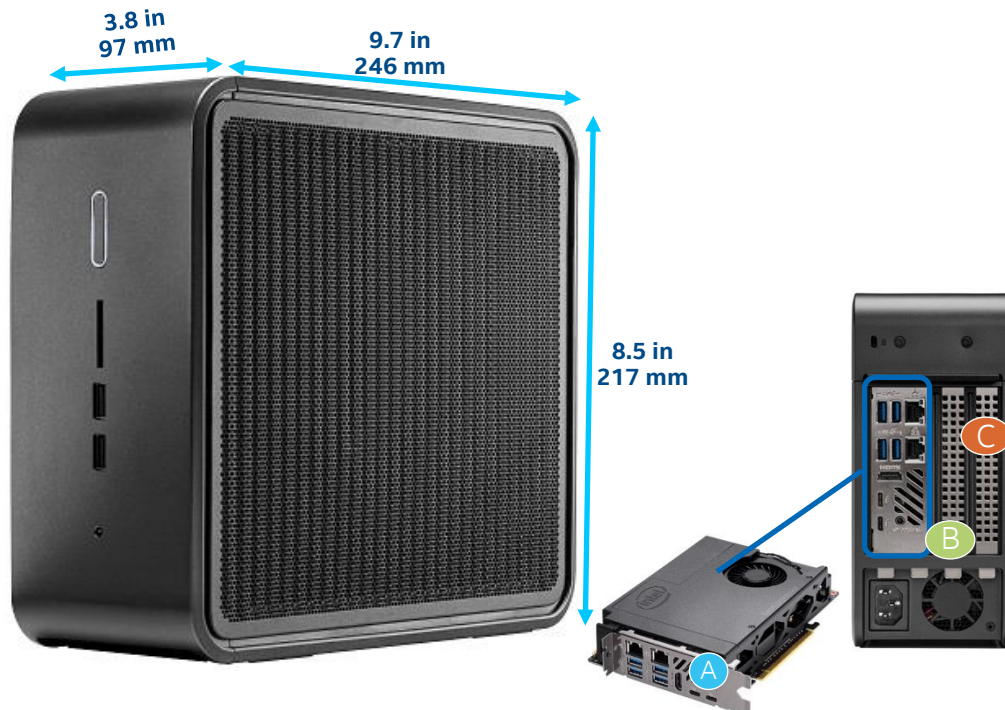
Intel® NUC 9 Pro



Intel® Xeon® E-2286M Processor (NUC9VXQN)
2.4 GHz – 5.0 GHz Turbo, 8 Core, 16 thread, 16MB Intel Smart Cache, **60W**
Intel® UHD Graphics P630, 350 MHz - 1250 MHz
Intel® vPro® Technology, Intel® AMT



9th Generation Intel® Core™ i7-9850H (NUC9V7QN)
2.6 GHz – 4.6 GHz Turbo, 6 Core, 12 thread, 12MB Cache, **60W**
Intel® UHD Graphics 630, 350 MHz - 1150 MHz
Intel® vPro® Technology, Intel® AMT



“Quartz Canyon”

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- A** Pre-installed **Quartz Canyon Compute Element**:
 - Dual-channel DDR4 SODIMM slots, 1.2V, max **64GB** @ 2666 MHz, ECC Memory Support (Xeon only)
 - 2x M.2 key M slots: 42/80 + 42/80/110 PCH-attached PCIe x4 Gen3 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable
 - Intel® Optane™ SSD and Intel® Optane™ Memory M10 and H10 ready
 - Discrete TPM 2.0
 - Runtime BIOS Resilience with Dynamic Attestation
 - HDMI 2.0a connector
 - 2x Thunderbolt™ 3 ports
 - Supports Three 4K displays (Intel® UHD Graphics)
 - 2x Intel® Gigabit (i219-LM and i210-AT) Ethernet ports
 - Intel® Wi-Fi 6 AX200, 802.11ax 2x2 2.4Gbps, WiAMT + Bluetooth® v5.2, dual internal antennas
 - 4x USB 3.2 Gen2 Type-A connectors (rear)
 - Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
 - 3.5mm rear speaker / TOSLINK combo jack
 - Internal Front Panel, Audio, CEC, 2x USB 2.0 headers
- B** **Quartz Canyon** chassis:
 - PCIe X16 slot with 6+2-pin & 6-pin PCIe power connectors, up to 225W, up to 8" card length, dual-slot capable
 - PCIe X4 slot
 - CPU-attached M.2 slot 42/80/110 PCIe X4 Gen3, Intel® Optane™ SSD ready
 - SDXC slot with UHS-II support
 - 2x USB 3.2 Gen2 Type-A (front)
 - 1x USB 3.2 Gen2 Type-A (internal) connector
 - 3.5mm front stereo headset jack
 - Plastic with metal inner frame, Kensington lock with panel security
 - 238 x 216 x 96 mm (5L volume)
 - 500W internal power supply with geo-specific C13 AC cords
- C**
 - Microsoft Windows* 11, Microsoft Windows* 10 logo, compatible with Windows Server 2019; compatible with various Linux distros
 - Individual bulk packaging
 - **Three-Year product availability, Three-Year limited warranty**

Available SKUs



Quartz Canyon Kit Ordering Codes

Product Code	MM#	AC Cord (C13)	Processor
Quartz Canyon Kit – NUC9VXQNX			
BKNUC9VXQNX	999DNA	None	Xeon E-2286M
BKNUC9VXQNX1	999DNC	US	
BKNUC9VXQNX2	999DND	EU	
BKNUC9VXQNX3	999DNF	UK	
BKNUC9VXQNX4	999DNG	AU	
BKNUC9VXQNX6	999DNH	CN	
Quartz Canyon Kit – NUC9V7QNX			
BKNUC9V7QNX	999DNJ	None	9 th Generation Core™ i7-9850H
BKNUC9V7QNX1	999DNK	US	
BKNUC9V7QNX2	999DNL	EU	
BKNUC9V7QNX3	999DNM	UK	
BKNUC9V7QNX4	999DNN	AU	
BKNUC9V7QNX6	999DNP	CN	

Quartz Canyon Compute Element Ordering Codes

Product Code	MM#	Processor
BKNUC9VXQNB	999LX2	Xeon® E-2286M
BKNUC9V7QNB	999LX3	9 th Gen i7-9850H

Intel® NUC Pro Chassis Element (U-series)

"Fort Beach" Chassis

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Support for Intel® NUC Compute Element

All [Chandler Bay](#), [Elk Bay](#) [Hard Bay](#), and [Icon Bay](#) Compute Elements are supported in the Fort Beach chassis.



CMCM2FB: Base



CMCM2FBAV: Video Capture & Audio

- Requires Intel® NUC Compute Element
- **Actively-Cooled chassis with I/O board installed**
- Two design implementations: **Base (CMCM2FB)**, **Video Capture & Audio (CMCM2FBAV)**
- **Dual M.2 22x80 key M** slots for PCIe x4 NVMe and SATA SSDs
- **Two HDMI 2.0a** with built-in CEC, support for dual 4k@60Hz
- **Intel® Optane™ Memory H10 with Solid State Storage** ready
- **Intel® i219-LM** Gigabit Ethernet and **Intel® i211-AT** Gigabit Ethernet ports
- 1x front and 2x rear **USB 3.2 Gen2** type A ports
- 1x front and 2x rear **USB 2.0** type A ports
- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI
- **Qualified for 24x7 operation; delayed AC start; DC overvoltage protection**
- **Display emulation** (headless display, virtual display, persistent displays)
- 12 – 24V_{DC} rear jack
- Metal chassis, Kensington lock with base security
 - 0~35degC external ambient operating temperature
 - 19V_{DC} 90W power supply adapter with geo-specific AC cords (IEC C5 connector)
 - VESA mounting plate included
 - Internal Wi-Fi and Bluetooth® antennas
 - Chassis dimensions: 200 x 145 x 35 mm (w/ rubber feet)
- Microsoft Windows 11, Windows 10, Windows 10 IOT Enterprise
- Compatible with various Linux distros
- **Supported by Intel® NUC Pro Software Suite**
- Individual brown-box packaging
- **Three-Year product availability, Three-Year limited warranty**
- **Video Capture & Audio Version Additional Features**
- **HDMI Video Capture up to 1080p with HDMI Passthrough**
- **3.5mm Audio In and Out jacks**

Available SKUs

Mini PC

Kit

Chassis

Compute Element

Intel® NUC Pro Chassis Element (U-series)

"Fort Beach" Chassis

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Fort Beach Carrier Chassis Ordering Codes (CMCM2FB)

Product Code	MM#	Description
BKCMCM2FB	99A2P2	Intel® NUC Pro Chassis Element CMCM2FB, no cord, 5 pack
BKCMCM2FB1	99A2P3	Intel® NUC Pro Chassis Element CMCM2FB, US cord, 5 pack
BKCMCM2FB2	99A2P6	Intel® NUC Pro Chassis Element CMCM2FB, EU cord, 5 pack
BKCMCM2FB3	99A2PC	Intel® NUC Pro Chassis Element CMCM2FB, UK cord, 5 pack
BKCMCM2FB4	99A2PD	Intel® NUC Pro Chassis Element CMCM2FB, AU cord, 5 pack

Fort Beach Carrier Chassis Ordering Codes (CMCM2FBAV)

BKCMCM2FBAV	99A2N5	Intel® NUC Pro Chassis Element CMCM2FBAV, no cord, 5 pack
BKCMCM2FBAV1	99A2NJ	Intel® NUC Pro Chassis Element CMCM2FBAV, US cord, 5 pack
BKCMCM2FBAV2	99A2NZ	Intel® NUC Pro Chassis Element CMCM2FBAV, EU cord, 5 pack
BKCMCM2FBAV3	99A2P0	Intel® NUC Pro Chassis Element CMCM2FBAV, UK cord, 5 pack
BKCMCM2FBAV4	99A2P1	Intel® NUC Pro Chassis Element CMCM2FBAV, AU cord, 5 pack

Intel® NUC 12 Pro

“Wall Street Canyon”

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	12th Generation Intel® Core™ i7-1270P Intel® Iris® X ^e Graphics, Intel® vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 18MB L3 Cache, 35W TDP (P-Cores: Up to 4.8GHz Turbo; E-Cores : Up to 3.5GHz Turbo)
	12th Generation Intel® Core™ i7-1260P Intel® Iris® X ^e Graphics 12 Processor Cores (4P+8E), 16 threads, 18MB L3 Cache, 35W TDP (P-Cores: Up to 4.7GHz Turbo; E-Cores: Up to 3.4GHz Turbo)
	12th Generation Intel® Core™ i5-1250P Intel® Iris® X ^e Graphics, Intel® vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 12MB L3 Cache, 35W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)
	12th Generation Intel® Core™ i5-1240P Intel® Iris® X ^e Graphics 12 Processor Cores (4P+8E), 16 threads, 12MB L3 Cache, 35W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)
	12th Generation Intel® Core™ i3-1220P Intel® UHD Graphics 10 Processor Cores (2P+8E), 12 threads, 12MB L3 Cache, 20W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)



- **Up to Quad Extended Displays:**
 - Dual HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port
 - Dual Thunderbolt™ 4 ports (incl. DP 1.4a and USB4) via back panel type C connectors (**select SKUs only**)
- M.2 22x80 key M slot for **PCIe x4 Gen4 NVMe SSD**
- **M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability**
- **Intel® i225 2.5 Gb Ethernet** (i225-LM on vPro SKUs; i225-V on non-vPro SKUs) port
- **Support for 2nd LAN** (Intel® 2.5 GbE) and **2x additional USB 2.0 ports** via internal expansion option (tall kits only) [2nd LAN/USB expansion module to be available separately, not included with NUC]
- **Intel® Wi-Fi 6E AX211** (vPro & non-vPro) on M.2 slot, supporting 802.11ax and Bluetooth 5.2 w/internal antennas
- Dual-channel **DDR4-3200 SODIMM slots**, 1.2V, **64GB max.**
- Discrete TPM 2.0 (i7 vPro™ and i5 vPro™ SKUs only)
- 2x front and 1x rear **USB 3.2 Gen2** type A ports
- 1x rear type A and 2x internal USB 2.0 headers
- **All USB ports with individual USB power control**
- 3.5mm front stereo headset jack
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports (**select SKUs only**)
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; Auto CMOS reset; DC transient voltage suppression**
- **Display emulation (headless display, virtual display, persistent displays) via HDMI ports**
- **12 – 20V_{DC} ±5% DC input on rear jack, internal 2x2 power connector, with OVP/UVF**
- TDP settings for Core i5/i7 CPUs down-configurable to 20W
- **Matte textured chassis**, replaceable lid, Kensington lock with base security, Cable locking arm
 - Up to 40degC external ambient operating temperature tolerance
 - Power supply adapter (**120W/20V_{DC}** for Core i7, i5; **90W/19V_{DC}** for Core i3) with geo-specific AC cord (IEC C5)
 - VESA mounting plate included
 - Tall kits only: 2.5" drive bay (15mm SATA) and internal expansion bay via backpanel
- Dimensions: Board: 104 x 102 mm; “K” chassis: 117 x 112 x 37 mm; “H” chassis: 117 x 112 x 54 mm
- Microsoft Windows 11 (logo'd), Windows 10 (logo'd), Windows 10 IOT Enterprise
- Compatible with various Linux distros
- **Supported by Intel® NUC Pro Software Suite**
- Individual retail box packaging
- **Three-Year product availability, Three-Year limited warranty**

Available SKUs

Mini PC

Kit

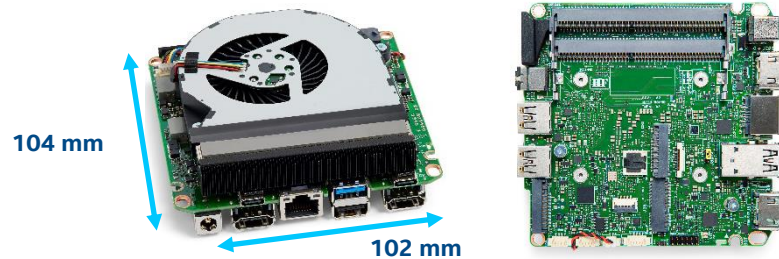
Chassis

Board

Intel® NUC 12 Pro

	<p>12th Generation Intel® Core™ i7-1270P Intel® Iris® X^e Graphics, Intel® vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 18MB L3 Cache, 35W TDP (P-Cores: Up to 4.8GHz Turbo; E-Cores : Up to 3.5GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i7-1260P Intel® Iris® X^e Graphics 12 Processor Cores (4P+8E), 16 threads, 18MB L3 Cache, 35W TDP (P-Cores: Up to 4.7GHz Turbo; E-Cores: Up to 3.4GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i5-1250P Intel® Iris® X^e Graphics, Intel® vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 12MB L3 Cache, 35W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i5-1240P Intel® Iris® X^e Graphics 12 Processor Cores (4P+8E), 16 threads, 12MB L3 Cache, 35W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)</p>
	<p>12th Generation Intel® Core™ i3-1220P Intel® UHD Graphics 10 Processor Cores (2P+8E), 12 threads, 12MB L3 Cache, 20W TDP (P-Cores: Up to 4.4GHz Turbo; E-Cores: Up to 3.3GHz Turbo)</p>

- Up to Quad Extended Displays:
 - Dual HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port
 - Dual Thunderbolt™ 4 ports (incl. DP 1.4a and USB4) via back panel type C connectors (select SKUs only)
- M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD
- M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability
- Intel® i225 2.5 Gb Ethernet (i225-LM on vPro SKUs; i225-V on non-vPro SKUs) port
- M.2 2230 key E slot for Intel® Wi-Fi 6E AX211 card (sold separately)
- Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max.
- Discrete TPM 2.0 (i7 vPro™ and i5 vPro™ SKUs only)
- 2x front and 1x rear USB 3.2 Gen2 type A ports
- 1x rear type A and 2x internal USB 2.0 headers
- All USB ports with individual USB power control
- 3.5mm front stereo headset jack
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports (select SKUs only)
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- Qualified for 24x7 operation
- Delayed AC start; Auto CMOS reset; DC transient voltage suppression
- Display emulation (headless display, virtual display, persistent displays) via HDMI ports
- 12 – 20V_{DC} ±5% DC input on rear jack, internal 2x2 power connector, with OVP/UVP
- TDP settings for Core i5/i7 CPUs down-configurable to 20W
- Board dimensions: 104 x 102 mm
- Microsoft Windows 11 (logo'd), Windows 10 (logo'd), Windows 10 IOT Enterprise
- Compatible with various Linux distros
- Supported by Intel® NUC Pro Software Suite
- 5-pack bulk packaging
- Three-Year product availability, Three-Year limited warranty



Available SKUs

Mini PC

Kit

Chassis

Board

Intel® NUC 12 Pro

Wall Street Canyon i7 vPro™ "Tall Kit" - NUC12WSHv7

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHv70000	99AP33	Yes	No	Next Gen Intel® Core™ i7-1270P Intel® vPro® Technology
RNUC12WSHv70001	99AP35	Yes	US	
RNUC12WSHv70002	99AP36	Yes	EU	

Wall Street Canyon i7 vPro™ "Slim Kit" - NUC12WSKv7

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKv70000	99AP2Z	Yes	No	Next Gen Intel® Core™ i7-1270P Intel® vPro® Technology
RNUC12WSKv70001	99AP31	Yes	US	
RNUC12WSKv70002	99AP32	Yes	EU	

Wall Street Canyon i5 vPro™ "Tall Kit" - NUC12WSHv5

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHv50000	99AP25	Yes	No	Next Gen Intel® Core™ i5-1250P Intel® vPro® Technology
RNUC12WSHv50001	99AP27	Yes	US	
RNUC12WSHv50002	99AP28	Yes	EU	

Wall Street Canyon i5 vPro™ "Slim Kit" - NUC12WSKv5

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKv50000	99AP21	Yes	No	Next Gen Intel® Core™ i5-1250P Intel® vPro® Technology
RNUC12WSKv50001	99AP23	Yes	US	
RNUC12WSKv50002	99AP24	Yes	EU	

Intel® NUC 12 Pro

"Wall Street Canyon" Kits w/ Intel® vPro™ Enterprise (no type C)

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Wall Street Canyon i7 vPro™ "Tall Kit" (no type C) - NUC12WSHv70Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHv70Z00	99AXPX	No	No	Next Gen Intel® Core™ i7-1270P Intel® vPro® Technology

Wall Street Canyon i7 vPro™ "Slim Kit" (no type C) - NUC12WSKv70Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKv70Z00	99AXPW	No	No	Next Gen Intel® Core™ i7-1270P Intel® vPro® Technology

Wall Street Canyon i5 vPro™ "Tall Kit" (no type C) - NUC12WSHv50Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHv50Z00	99AXPD	No	No	Next Gen Intel® Core™ i5-1250P Intel® vPro® Technology

Wall Street Canyon i5 vPro™ "Slim Kit" (no type C) - NUC12WSKv50Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKv50Z00	99AXPC	No	No	Next Gen Intel® Core™ i5-1250P Intel® vPro® Technology

Intel® NUC 12 Pro

Wall Street Canyon i7 "Tall Kit" - NUC12WSHi7

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHi70000	99AP2J	Yes	No	Next Gen Intel® Core™ i7-1260P
RNUC12WSHi70001	99AP2L	Yes	US	
RNUC12WSHi70002	99AP2M	Yes	EU	
RNUC12WSHi70006	99AP2R	Yes	CN	

Wall Street Canyon i7 "Slim Kit" - NUC12WSKi7

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKi70000	99AP2A	Yes	No	Next Gen Intel® Core™ i7-1260P
RNUC12WSKi70001	99AP2D	Yes	US	
RNUC12WSKi70002	99AP2F	Yes	EU	

Wall Street Canyon i5 "Tall Kit" - NUC12WSHi5

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHi50000	99AP0H	Yes	No	Next Gen Intel® Core™ i5-1240P
RNUC12WSHi50001	99AP0K	Yes	US	
RNUC12WSHi50002	99AP10	Yes	EU	
RNUC12WSHi50006	99AP1L	Yes	CN	

Wall Street Canyon i5 "Slim Kit" - NUC12WSKi5

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKi50000	99AP09	Yes	No	Next Gen Intel® Core™ i5-1240P
RNUC12WSKi50001	99AP0C	Yes	US	
RNUC12WSKi50002	99AP0D	Yes	EU	

Wall Street Canyon i3 "Tall Kit" - NUC12WSHi3

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHi30000	99AP01	Yes	No	Next Gen Intel® Core™ i3-1220P

Wall Street Canyon i3 "Slim Kit" - NUC12WSKi3

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKi30000	99ANZT	Yes	No	Next Gen Intel® Core™ i3-1220P

Intel® NUC 12 Pro

"Wall Street Canyon" Kits (no type C)

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Wall Street Canyon i7 "Tall Kit" (no type C) - NUC12WSHi70Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHi70Z00	99AXPK	No	No	Next Gen Intel® Core™ i7-1260P
RNUC12WSHi70Z01	99AXPR	No	US	
RNUC12WSHi70Z02	99AXPT	No	EU	
RNUC12WSHi70Z06	99AXPV	No	CN	

Wall Street Canyon i7 "Slim Kit" (no type C) - NUC12WSKi70Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKi70Z00	99AXPF	No	No	Next Gen Intel® Core™ i7-1260P
RNUC12WSKi70Z01	99AXPH	No	US	
RNUC12WSKi70Z02	99AXPJ	No	EU	

Wall Street Canyon i5 "Tall Kit" (no type C) - NUC12WSHi50Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHi50Z00	99AXP1	No	No	Next Gen Intel® Core™ i5-1240P
RNUC12WSHi50Z01	99AXP3	No	US	
RNUC12WSHi50Z02	99AXP9	No	EU	
RNUC12WSHi50Z06	99AXPA	No	CN	

Wall Street Canyon i5 "Slim Kit" (no type C) - NUC12WSKi50Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKi50Z00	99AXNN	No	No	Next Gen Intel® Core™ i5-1240P
RNUC12WSKi50Z01	99AXNZ	No	US	
RNUC12WSKi50Z02	99AXPO	No	EU	

Wall Street Canyon i3 "Tall Kit" (no type C) - NUC12WSHi30Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSHi30Z00	99AXMR	No	No	Next Gen Intel® Core™ i3-1220P
RNUC12WSHi30Z01	99AXN5	No	US	
RNUC12WSHi30Z02	99AXN6	No	EU	
RNUC12WSHi30Z06	99AXNH	No	CN	

Wall Street Canyon i3 "Slim Kit" (no type C) - NUC12WSKi30Z

Product Code	MM#	TBT	AC Cord (C5)	Processor
RNUC12WSKi30Z00	99AXML	No	No	Next Gen Intel® Core™ i3-1220P
RNUC12WSKi30Z01	99AXMN	No	US	
RNUC12WSKi30Z02	99AXMP	No	EU	

Wall Street Canyon Boards

Product Code	MM#	TBT	Processor
BNUC12WSBv70000	99ANZ1	Yes	Next Gen Intel® Core™ i7-1270P Intel® vPro® Technology
BNUC12WSBi70000	99ANZ0	Yes	Next Gen Intel® Core™ i7-1260P
BNUC12WSBv50000	99ANXZ	Yes	Next Gen Intel® Core™ i5-1250P Intel® vPro® Technology
BNUC12WSBi50000	99ANXX	Yes	Next Gen Intel® Core™ i5-1240P
BNUC12WSBi30000	99ANXW	Yes	Next Gen Intel® Core™ i3-1220P

Wall Street Canyon vPro™ Dual LAN Kits

Product Code	MM#	TBT	AC Cord (C5)	Processor	2 nd LAN
RNUC12WSHv70L00	99AP37	Yes	No	Next Gen Intel® Core™ i7-1270P Intel® vPro® Technology	Yes
RNUC12WSHv50L00	99AP29	Yes	No	Next Gen Intel® Core™ i5-1250P Intel® vPro® Technology	Yes
RNUC12WSHi30L00	99AP08	Yes	No	Next Gen Intel® Core™ i3-1220P	Yes

Intel® NUC 12 Pro

"Wall Street Canyon" Boards (no type C)

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Wall Street Canyon Boards

Product Code	MM#	TBT	Processor
BNUC12WSBi70Z00	99AXM8	No	Next Gen Intel® Core™ i7-1260P
BNUC12WSBi50Z00	99AXM7	No	Next Gen Intel® Core™ i5-1240P
BNUC12WSBi30Z00	99AXM6	No	Next Gen Intel® Core™ i3-1220P

Intel® NUC 12 Pro

"Wall Street Canyon" Mini PCs (for China only)

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Wall Street Canyon "Tall" Mini PCs (PRC)

CPU	Product Code	MM#	TBT	AC Cord (C5)	Box	VESA Bracket	RAM	SSD	OS
Next Gen Intel® Core™ i7-1260P	RNUC12WSHi70QA6	99AXMK	Yes	CN	CN	No	2x8GB DDR4-3200	500GB NVMe x4 Gen4	Windows 11 Home Plus
Next Gen Intel® Core™ i5-1240P	RNUC12WSHi50WA6	99AXMG	Yes	CN	CN	No	2x4GB DDR4-3200	500GB NVMe x4 Gen4	Windows 11 Home Standard
Next Gen Intel® Core™ i3-1220P	RNUC12WSHi30WA6	99AXMC	Yes	CN	CN	No	2x4GB DDR4-3200	500GB NVMe x4 Gen4	Windows 11 Home Standard

Intel® NUC 12 Pro

“Wall Street Canyon” Mini PCs (no type C – worldwide dist.)

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Wall Street Canyon “Slim” Mini PCs (Worldwide)


CPU	Product Code	MM#	TBT	AC Cord (C5)	Box	VESA Bracket	RAM	SSD	OS
Next Gen Intel® Core™ i7-1260P	RNUC12WSKi70XC1	99C02G	No	US	WW	Yes	2x8GB DDR4-3200	500GB NVMe x4 Gen4	Windows 11 Pro Standard
	RNUC12WSKi70XC2	99AXMJ		EU					
Next Gen Intel® Core™ i5-1240P	RNUC12WSKi50YC1	99C02F	No	US	WW	Yes	2x4GB DDR4-3200	500GB NVMe x4 Gen4	Windows 11 Pro Standard
	RNUC12WSKi50YC2	99AXMF		EU					
Next Gen Intel® Core™ i3-1220P	RNUC12WSKi30YC1	99C01P	No	US	WW	Yes	2x4GB DDR4-3200	500GB NVMe x4 Gen4	Windows 11 Pro Standard
	RNUC12WSKi30YC2	99AXMA		EU					

Intel® NUC 11 Pro

"Tiger Canyon"

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	<p>11th Generation Intel® Core™ i7-1185G7 Intel® Iris™ Xe Graphics, Intel® vPro® Technology 3.0GHz@28W, up to 4.8GHz Turbo, 4 Cores, 8 Threads, 12MB L3 Cache</p>
	<p>11th Generation Intel® Core™ i7-1165G7 Intel® Iris™ Xe Graphics 2.8GHz@28W, up to 4.7GHz Turbo, 4 Cores, 8 Threads, 12MB L3 Cache</p>
	<p>11th Generation Intel® Core™ i5-1145G7 Intel® Iris™ Xe Graphics, Intel® vPro® Technology 2.6GHz@28W, up to 4.4GHz Turbo, 4 Cores, 8 Threads, 8MB L3 Cache</p>
	<p>11th Generation Intel® Core™ i5-1135G7 Intel® Iris™ Xe Graphics 2.4GHz@28W, up to 4.2GHz Turbo, 4 Cores, 8 Threads, 8MB L3 Cache</p>
	<p>11th Generation Intel® Core™ i3-1115G4 Intel® UHD Graphics ~1.9GHz@15W, up to 4.1GHz Turbo, 2 Cores, 4 Threads, 6MB L3 Cache</p>



*The product images shown may represent the range of products or be for illustration purposes only and may not be an exact representation of the product.

- **Up to Quad Extended Displays:**
 - Dual **HDMI 2.0b** (4K@60Hz), with built-in CEC per port
 - Dual **Thunderbolt™** ports (incl. **DP 1.4a** and **USB4**) via back panel type C connectors (**select SKUs only**)
- M.2 22x80 key M slot for **PCIe x4 Gen4 NVMe SSD**
- M.2 22x42 key B slot for **PCIe x1 Gen3, USB 3.2 Gen2, USB 2.0 and SATA SSD expandability**
- **Intel® i225-LM 2.5 Gb Ethernet port**
- **Support for 2nd LAN** (Intel® 2.5 GbE) and **2x additional USB 2.0 ports** via internal expansion option (tall kits only) [2nd LAN/USB expansion module to be available separately, not included with NUC]
- **Intel® Wi-Fi 6 AX201** (vPro & non-vPro) on M.2 slot, supporting 802.11ax and Bluetooth 5.2 w/internal antennas
- Discrete TPM 2.0 (i7 vPro™ and i5 vPro™ SKUs only)
- Dual-channel **DDR4-3200 SODIMM slots**, 1.2V, **64GB max.**
- 2x front and 1x rear **USB 3.2 Gen2** type A ports
- 1x rear type A and 2x internal USB 2.0 headers (all USB ports with individual USB power control)
- **1x RS232 serial port header**
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports (**select SKUs only**)
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; Auto CMOS reset; DC transient voltage suppression**
- **Display emulation (headless display, virtual display, persistent displays) via HDMI**
- **12 – 20V_{DC} ±5%** (reduced from 24V_{DC}) **DC input on rear jack, internal 2x2 power connector, with OVP/UVP**
- TDP settings down-configurable to 12W
- **Matte textured chassis**, replaceable lid, Kensington lock with base security, Cable locking arm
 - 0~40degC external ambient operating temperature tolerance
 - 19VDC power supply adapter with geo-specific AC cords (IEC C5 connector)
 - VESA mounting plate included
 - Tall kit only: 2.5" drive bay (7mm), and internal expansion bay via backpanel (DB9 punched bracket, or 2nd LAN and 2x additional USB 2.0 ports on expansion card)
- "Tall" H chassis: 117 x 112 x 54 mm; "Slim" K chassis: 117 x 112 x 37mm; Board: 104 x 102 mm
- Microsoft Windows 11(logo'd), Windows 10 (logo'd), Windows 10 IOT Enterprise
- Compatible with various Linux distros
- **Supported by Intel® NUC Pro Software Suite**
- Individual brown-box packaging
- **Three-Year product availability, Three-Year limited warranty**

Available SKUs

Mini PC

Kit

Chassis

Board

Intel® NUC 11 Pro

"Tiger Canyon" Board

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11th Generation Intel® Core™ i7-1185G7
Intel® Iris™ Xe Graphics, Intel® vPro® Technology
3.0GHz@28W, up to 4.8GHz Turbo, 4 Cores, 8 Threads,
12MB L3 Cache



11th Generation Intel® Core™ i7-1165G7
Intel® Iris™ Xe Graphics
2.8GHz@28W, up to 4.7GHz Turbo, 4 Cores, 8 Threads,
12MB L3 Cache



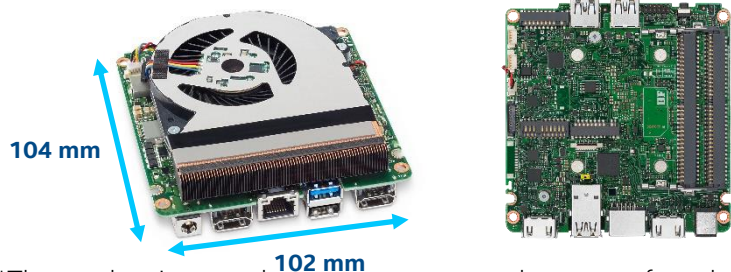
11th Generation Intel® Core™ i5-1145G7
Intel® Iris™ Xe Graphics, Intel® vPro® Technology
2.6GHz@28W, up to 4.4GHz Turbo, 4 Cores, 8
Threads, 8MB L3 Cache



11th Generation Intel® Core™ i5-1135G7
Intel® Iris™ Xe Graphics
2.4GHz@28W, up to 4.2GHz Turbo, 4 Cores, 8
Threads, 8MB L3 Cache



11th Generation Intel® Core™ i3-1115G4
Intel® UHD Graphics
~1.9GHz@15W, up to 4.1GHz Turbo, 2 Cores, 4
Threads, 6MB L3 Cache



*The product images shown may represent the range of products or be for illustration purposes only and may not be an exact representation of the product.

- Up to Quad Extended Displays:
 - Dual HDMI 2.0b (4K@60Hz), with built-in CEC per port
 - Dual Thunderbolt™ ports (incl. DP 1.4a and USB4) via back panel type C connectors (select SKUs only)
- M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD
- M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2, USB 2.0 and SATA SSD expandability
- Intel® i225-LM 2.5 Gb Ethernet port
- M.2 2230 key E slot for Intel® Wi-Fi 6 AX201 card (sold separately)
- TPM 2.0 (i7 vPro™ and i5 vPro™ SKUs only)
- Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max.
- 2x front and 1x rear USB 3.2 Gen2 type A ports
- 1x rear type A and 2x internal USB 2.0 headers (all USB ports with individual USB power control)
- 1x RS232 serial port header
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports (select SKUs only)
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- Qualified for 24x7 operation
- Delayed AC start; Auto CMOS reset; DC transient voltage suppression
- Display emulation (headless display, virtual display, persistent displays) via HDMI
- 12 – 24V_{DC} ±5% DC input on rear jack, internal 2x2 power connector, with OVP/UVF
- TDP settings down-configurable to 12W
- Board dimensions: 104 x 102 mm
- Microsoft Windows 11 (logo'd), Windows 10 (logo'd), Windows 10 IOT Enterprise
- Compatible with various Linux distros
- Supported by Intel® NUC Pro Software Suite
- 5-pack bulk packaging
- Three-Year product availability, Three-Year limited warranty

Available SKUs



Intel® NUC 11 Pro

Tiger Canyon i7 vPro™ "Tall" Kit – NUC11TNHv7

Product Code	MM#	AC Cord (C5)	Processor	TPM
BNUC11TNHv70000	99A7JR	None	11th Generation Core™ i7-1185G7	WW
BNUC11TNHv70001	99A7JT	US		WW
BNUC11TNHv70002	99A7JV	EU		WW

Tiger Canyon i7 vPro™ "Slim" Kit – NUC11TNKv7

Product Code	MM#	AC Cord (C5)	Processor	TPM
BNUC11TNKv70000	99A7JH	None	11th Generation Core™ i7-1185G7	WW
BNUC11TNKv70001	99A7JK	US		WW
BNUC11TNKv70002	99A7JL	EU		WW

Tiger Canyon i5 vPro™ "Tall" Kit – NUC11TNHv5

Product Code	MM#	AC Cord (C5)	Processor	TPM
BNUC11TNHv50000	99A7AF	None	11th Generation Core™ i5-1145G7	WW
BNUC11TNHv50001	99A7AG	US		WW
BNUC11TNHv50002	99A7AH	EU		WW

Tiger Canyon i5 vPro™ "Slim" Kit – NUC11TNKv5v

Product Code	MM#	AC Cord (C5)	Processor	TPM
BNUC11TNKv50000	99A6X5	None	11th Generation Core™ i5-1145G7	WW
BNUC11TNKv50001	99A78W	US		WW
BNUC11TNKv50002	99A79Z	EU		WW

Tiger Canyon vPro™ Dual LAN Kits

Product Code	MM#	AC Cord (C5)	Processor	2 nd LAN
BNUC11TNHv70L00	99A7JX	None	11th Generation Core™ i7-1185G7	2.5 GbE & Dual USB 2.0
BNUC11TNHv50L00	99A7AK	None	11th Generation Core™ i5-1145G7	2.5 GbE & Dual USB 2.0

Intel® NUC 11 Pro

"Tiger Canyon" non-vPro Kits

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Tiger Canyon i7 "Tall" Kit – NUC11TNHi7

Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNHi70000	99A8FA	None	11 th Generation Core™ i7-1165G7
BNUC11TNHi70001	99A8FC	US	
BNUC11TNHi70002	99A8FD	EU	

Tiger Canyon i7 "Slim" Kit – NUC11TNKi7

Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNKi70000	99A8A8	None	11 th Generation Core™ i7-1165G7
BNUC11TNKi70001	99A8A9	US	
BNUC11TNKi70002	99A8AF	EU	

Tiger Canyon i5 "Tall" Kit – NUC11TNHi5

Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNHi50000	99A8F6	None	11 th Generation Core™ i5-1135G7
BNUC11TNHi50001	99A8F7	US	
BNUC11TNHi50002	99A8F8	EU	

Tiger Canyon i5 "Slim" Kit – NUC11TNKi5

Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNKi50000	99A8A5	None	11 th Generation Core™ i5-1135G7
BNUC11TNKi50001	99A8A6	US	
BNUC11TNKi50002	99A8A7	EU	

Tiger Canyon i3 "Tall" Kit – NUC11TNHi3

Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNHi30000	99A8F1	None	11 th Generation Core™ i3-1115G4
BNUC11TNHi30001	99A8F2	US	
BNUC11TNHi30002	99A8F3	EU	

Tiger Canyon i3 "Slim" Kit – NUC11TNKi3vzv

Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNKi30000	99A8A2	None	11 th Generation Core™ i3-1115G4
BNUC11TNKi30001	99A8A3	US	
BNUC11TNKi30002	99A8A4	EU	

Tiger Canyon non-vPro Dual LAN Kits

Product Code	MM#	AC Cord (C5)	Processor	2 nd LAN
BNUC11TNHi70L00	99A8AL	None	11 th Generation Core™ i7-1165G7	2.5 GbE & Dual USB 2.0
BNUC11TNHi50L00	99A8AK	None	11 th Generation Core™ i5-1135G7	2.5 GbE & Dual USB 2.0
BNUC11TNHi30L00	99A8AJ	None	11 th Generation Core™ i3-1115G4	2.5 GbE & Dual USB 2.0

Intel® NUC 11 Pro

"Tiger Canyon" L9

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Tiger Canyon L9 Kits Ordering Codes

Product Code	MM#	AC Cord (C5)	Processor	RAM	Storage	OS
Tiger Canyon i7 Kit – NUC11TNHi7						
BNUC11TNHi70Q06	99AA5V	CN	11th Generation Core™ i7-1165G7	16GB DDR4	500GB Gen4 NVMe	None
Tiger Canyon i5 Kit – NUC11TNHi5						
BNUC11TNHi50W06	99AA5R	CN	11th Generation Core™ i5-1135G7	8GB DDR4	500GB Gen4 NVMe	None
Tiger Canyon i3 Kit – NUC11TNHi3						
BNUC11TNHi30P06	99AA5P	CN	11th Generation Core™ i3-1115G4	8GB DDR4	256GB NVMe	None

Intel® NUC 11 Pro

"Tiger Canyon" Board

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Tiger Canyon Board			
Product Code	CPU	MM#	TPM
BNUC11TNBv70000	11 th Generation Core™ i7 vPro®	99A78V	WW
BNUC11TNBi70000	11 th Generation Core™ i7	99A876	None
BNUC11TNBv50000	11 th Generation Core™ i5 vPro®	99A78T	WW
BNUC11TNBi50000	11 th Generation Core™ i5	99A875	None
BNUC11TNBi30000	11 th Generation Core™ i3	99A874	None

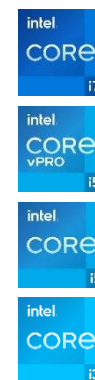
Intel® NUC 11 Pro

Ordering Information for Tiger Canyon without Type C (Product Codes Contain "Z")

Tiger Canyon No Type-C i7 – NUC11TN "Z" i7			
Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNBi70Z00	99AT8R	N/A	11 th Generation Core™ i7-1165G7
BNUC11TNKi70Z00	99ATAN	None	
BNUC11TNKi70Z01	99ATAP	US	
BNUC11TNKi70Z02	99ATAR	EU	
BNUC11TNHi70Z00	99ATAW	None	
BNUC11TNHi70Z01	99ATAX	US	
BNUC11TNHi70Z02	99ATAZ	EU	
BNUC11TNHi70Z06	99ATC0	CN	

Tiger Canyon No Type-C i5 – NUC11TN "Z" i5			
Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNBi50Z00	99AT8P	N/A	11 th Generation Core™ i5-1135G7
BNUC11TNKi50Z00	99AT9R	None	
BNUC11TNKi50Z01	99ATA1	US	
BNUC11TNKi50Z02	99ATA3	EU	
BNUC11TNHi50Z00	99ATA4	None	
BNUC11TNHi50Z01	99ATA7	US	
BNUC11TNHi50Z02	99ATAC	EU	
BNUC11TNHi50Z06	99ATAM	CN	
BNUC11TNKv50Z00	99AVJ4	None	Core™ i5-1145G7 Intel® vPro® Technology

Tiger Canyon No Type-C i3 – NUC11TN "Z" i3			
Product Code	MM#	AC Cord (C5)	Processor
BNUC11TNBi30Z00	99AT8N	N/A	11 th Generation Core™ i3-1115G4
BNUC11TNKi30Z00	99AT93	None	
BNUC11TNKi30Z01	99AT9C	US	
BNUC11TNKi30Z02	99AT9D	EU	
BNUC11TNHi30Z00	99AT9H	None	
BNUC11TNHi30Z01	99AT9M	US	
BNUC11TNHi30Z02	99AT9N	EU	
BNUC11TNHi30Z06	99AT9P	CN	



- TGL i3 / i5 / i7 (L6 only) (**1 SKU i5 vPro**)
- Board / Slim / Tall
- I/O: Two HDMI 2.0b ports | Intel® i225-LM Ethernet port | Three USB 3.2 Gen2 type A ports | One USB 2.0 type A port
- EOL 1H'24; Three-Year limited warranty
- Tiger Canyon No Type-C SKUs will be available in addition to regular Tiger Canyon

Intel® NUC Pro Software Suite

Software Robustness for Your Solution



NPSS ensures **applications stay running** and enables digital signage **player redundancy**, agnostic of CMS package.

Application Monitoring

- Relaunch an application if it unexpectedly quits (“crash”)
- Terminate (and relaunch) an application if it becomes unresponsive (“hang”)
- OS shutdown or restart if target application fails <n> times
- Hardware watchdog timer executes hard system reset if NPSS/system becomes unresponsive
- Log application monitoring activity to log file

Player Failover

- Assess health status of player device
- Broadcast “heartbeat” and keep track of “paired” NUC’s health status
- Take over display of paired NUC if it detects loss of heartbeat
- Retake its own display when affected NUC resumes healthy status
- User-friendly setup via separate Configuration Tool

Intel® NUC Pro

- Intel® NUC 12 Pro NUC12WS
- Intel® NUC 11 Pro NUC11TN

Available today for Windows and Linux!

<https://www.intel.com/content/www/us/en/download/732573/intel-nuc-pro-software-suite.html>

Intel® NUC Compute Elements (U-Series)

- Intel® NUC 12 Compute Element (ELM12HB)
- Intel® NUC 11 Compute Element (CM11EB)
- Intel® NUC 8 Compute Element (CM**CB)
- Intel® NUC Rugged Chassis Element CMCR1ABA/ CMCR1ABB
- Intel® NUC Pro Chassis Element CMCM2FB/ CMCM2FBAV



Intel® NUC Rugged

Engineered For Robustness

- Fanless / dust-resistant*
- Three-Year product availability
- Customizable IO
- Validated for 24/7 operation and other industry-leading Intel reliability tests
- Board-level robustness against dirty (oscillating) DC input*
- 0-40°C external ambient operating temperature tolerance

*Varies by product

Target Usage Scenarios



Rugged



Visual
Solutions



Edge Data
Analytics



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Intel® NUC 8 Rugged

“Chaco Canyon”

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Intel® Celeron® Processor N3350 (NUC8CCHKRN)
1.1 GHz to 2.4 GHz Burst, 2 Core, 2 Thread, 2 MB cache,
6W Intel® HD Graphics 500



- **Dual HDMI** (1x HDMI 2.0a, 1x HDMI 1.4), with **built-in CEC** for both ports (Support for single 4k@60Hz or dual 1080@60Hz)
- **IP50 rated fanless and ventless dust-resistant chassis with custom plugs for unused ports**
- **Internal 4-lane eDP connector** (support for up to 4k@60Hz)
- **4GB dual-channel LPDDR3 RAM soldered-down**
- **64GB eMMC** soldered-down; **M.2 2280 key M** slot for PCIe x4 NVMe or SATA SSD
- **Intel® i211-AT** Gigabit Ethernet port
- **Intel® Wireless-AC 3168** M.2 card pre-installed w/internal antennas (kit SKUs only)
- 1x front and 1x rear USB 3.2 Gen 1 type A ports
- 1x internal USB 3.2 Gen 1 header (**host & device modes**)
- 2x rear type A and 2x internal USB 2.0 headers
- **All USB ports with individual USB power control**
- **1x RS232** serial port header
- Up to 7.1 multichannel digital audio via HDMI
- Front-panel header (incl. Vcc5/1A, 5Vsby/2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; DC transient voltage suppression**
- **Display emulation** (headless display, 2nd virtual display, persistent displays)
- **12 – 24V_{DC} ±5% DC input on rear jack and internal 2x2 power connector**
- **New Watchdog Timer Utility** (for Windows) monitors and restarts unresponsive applications or OS
- Plastic chassis, Kensington lock with base security, **DC cable strain relief**
 - 0~40degC external ambient operating temperature
 - 19V_{DC} 65W power supply adapter with geo-specific AC cords (IEC C5 connector)
 - Mounting options: VESA mounting holes built into chassis (for slim profile mounting), picture frame keyholes, mounting indentations for cable ties
 - **Front panel expansion bay** (compliant w/ daughtercards from 3rd-party functional lids)
- Chassis dimensions: 154 x 108 x 32 mm; Board dimensions: 146 x 102 mm (**3.5" SBC**)
- Supports Windows 10 IOT Enterprise
 - Support for Microsoft Windows 10 Pro will end with Microsoft EOL
- Compatible with various Linux distros
- Individual brown-box packaging
- **Three-Year product availability, Three-Year limited warranty**

Available SKUs

Mini PC Kit Chassis Board

Intel® NUC 8 Rugged

“Chaco Canyon”

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Chaco Canyon Kit – NUC8CCHKRN (Without analog audio codec / line-out jack)

Product Code	MM#	AC Cord (C5)	Processor
BKNUC8CCHKRN	99AHRH	None	Intel® Celeron N3350
BKNUC8CCHKRN1	99AHRJ	US	
BKNUC8CCHKRN2	99AHRK	EU	
BKNUC8CCHKRN4	99AHRM	AU	

Intel® NUC 8 Rugged

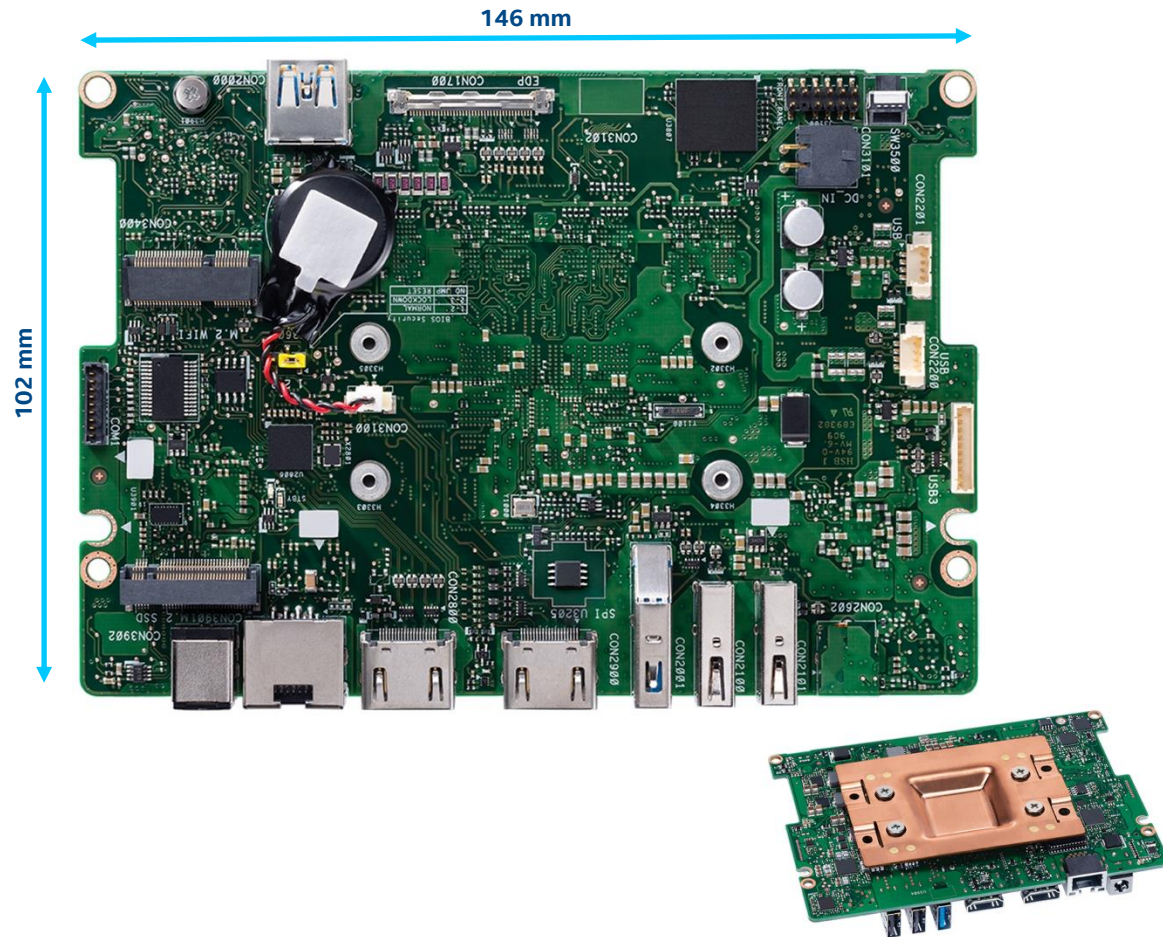
“Chaco Canyon” Board

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Intel® Celeron® Processor N3350 (NUC8CCHBN)
1.1 GHz to 2.4 GHz Burst, 2 Core, 2 Thread, 2 MB cache,
6W Intel® HD Graphics 500



The product images shown may not be an exact representation of the product.

- Dual HDMI (1x HDMI 2.0a, 1x HDMI 1.4), with **built-in CEC for both ports** (Support for single 4k@60Hz or dual 1080@60Hz)
- **Internal 4-lane eDP connector** (support for up to 4k@60Hz)
- **4GB dual-channel LPDDR3 RAM soldered-down**
- **64GB eMMC soldered-down; M.2 2280 key M slot** for PCIe x4 NVMe or SATA SSD
- **Intel® i211-AT Gigabit Ethernet port**
- **M.2 2230 key E slot** for Intel® Wireless-AC 3168 card (sold separately)
- 1x front and 1x rear USB 3.2 Gen 1 type A ports
- 1x internal USB 3.2 Gen 1 header (**host & device modes**)
- 2x rear type A and 2x internal USB 2.0 headers
- **All USB ports with individual USB power control**
- **1x RS232 serial port header**
- Up to 7.1 multichannel digital audio via HDMI
- Front-panel header (incl. Vcc5/1A, 5Vsby/2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; DC transient voltage suppression**
- **Display emulation (headless display, 2nd virtual display, persistent displays)**
- **12 – 24V_{DC} ±5% DC input on rear jack and internal 2x2 power connector**
- **New Watchdog Timer Utility** monitors and restarts unresponsive applications or OS
- Board dimensions: 146 x 102 mm (**3.5" SBC**)
- Supports Microsoft Windows® 10 Pro, Windows 10 IOT Enterprise
- Compatible with various Linux distros
- 5-pack bulk packaging
- **Three-Year product availability, Three-Year limited warranty**

Available SKUs

Mini PC

Kit

Chassis

Board

Intel® NUC 8 Rugged

Chaco Canyon Board – NUC8CCHB (Without analog audio codec / line-out jack)

Product Code	MM#
BKNUC8CCHBN	99AHRR

Intel® NUC 8 Rugged Chassis Element (U-Series)

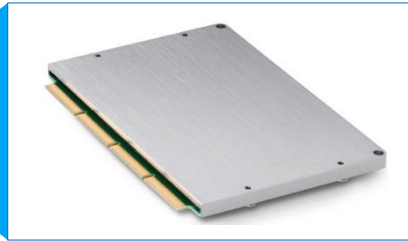
"Austin Beach Expandable" Chassis

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Support for Intel® NUC Compute Element

All [Chandler Bay](#), [Elk Bay](#), [Hard Bay](#), and [Icon Bay](#) Compute Elements are supported in the Austin Beach Expandable chassis.



- Requires Intel® NUC Compute Element
- Fanless, dust-resistant chassis with I/O board installed; preliminary IP50 rating
- Design implementation: [Expandable](#) (CMCR1ABA)
- Dual M.2 22x80 key M slots for PCIe x4 NVMe and SATA SSDs
- Two HDMI 2.0a ports with built-in CEC, plus internal 4-lane eDP interface
 - Support for dual 4k@60Hz via HDMI 2.0a, plus additional 4k@60 via eDP
- Intel® Optane™ Memory H10 with Solid State Storage ready
- Intel® i219-LM Gigabit Ethernet port
- 1x front and 2x rear USB 3.2 Gen2 type A ports, 1x internal USB 3.2 Gen 1 header
- 1x front type A and 2x internal USB 2.0 headers
- 2x RS232 serial port headers
- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- Qualified for 24x7 operation
- Delayed AC start; DC overvoltage protection
- Display emulation (headless display, virtual display, persistent displays)
- 12 – 24V_{DC} rear jack, internal 2x2 power connector
- Metal chassis, Kensington lock with base security
 - 0~40degC external ambient operating temperature
 - 19V_{DC} 90W power supply adapter with geo-specific AC cords (IEC C5 connector)
 - VESA mounting plate included, with mechanical support for power supply adapter
 - External dipole antennas
 - Internal expansion bay via backpanel (2x DB9 punched bracket pre-installed)
 - Chassis dimensions: 254 x 152.4 x 36 mm (plus additional 4.8mm of rubber feet height)
- Microsoft Windows 11, Microsoft Windows 10, Windows 10 IOT Enterprise, compatible with various Linux distros
- Supported by [Intel® NUC Pro Software Suite](#)
- Individual brown-box packaging
- Three-Year product availability
- Three-Year limited warranty

Available SKUs



Mini PC



Kit



Chassis



Board

Intel® NUC 8 Rugged Chassis Element (U-Series)

"Austin Beach Dual LAN" Chassis

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Support for Intel® NUC Compute Element

All [Chandler Bay](#), [Elk Bay](#), [Hard Bay](#), and [Icon Bay](#) Compute Elements are supported in the Austin Beach Dual LAN chassis.



- Requires Intel® NUC Compute Element
- Fanless, dust-resistant chassis with I/O board installed; preliminary IP50 rating
- Design implementation: **Dual LAN** (CMCR1ABB)
- **Dual M.2 22x80 key M** slots for PCIe x4 NVMe and SATA SSDs
- **Two HDMI 2.0a** ports with **built-in CEC**
 - Support for dual 4k@60Hz via HDMI 2.0a
- **Intel® Optane™ Memory H10 with Solid State Storage** ready
- **Dual Gigabit Ethernet: Intel® i219-LM and Intel® i211-AT ports**
- 1x front and 2x rear **USB 3.2 Gen2** type A ports, 1x internal USB 3.2 Gen 1 header
- 1x front and 2x rear type A USB 2.0 ports
- 2x **RS232** serial port headers
- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- **Qualified for 24x7 operation**
- **Delayed AC start; DC overvoltage protection**
- **Display emulation** (headless display, virtual display, persistent displays)
- 12 – 24V_{DC} rear jack, internal 2x2 power connector
- Metal chassis, Kensington lock with base security
 - 0~40degC external ambient operating temperature
 - 19V_{DC} 90W power supply adapter with geo-specific AC cords (IEC C5 connector)
 - VESA mounting plate included, with mechanical support for power supply adapter
 - External dipole antennas
 - Chassis dimensions: 254 x 152.4 x 36 mm (plus additional 4.8mm of rubber feet height)
- Microsoft Windows 11, Microsoft Windows 10, Windows 10 IOT Enterprise, compatible with various Linux distros
- **Supported by Intel® NUC Pro Software Suite**
- Individual brown-box packaging
- **Three-Year product availability**
- **Three-Year limited warranty**

Available SKUs

Mini PC Kit Chassis Board

Intel® NUC 8 Rugged Chassis Element (U-Series)

Support for Intel® NUC Compute Element

All [Chandler Bay](#) and [Elk Bay](#) Compute Elements are supported in the Austin Beach Multi HDMI chassis.



- Requires Intel® NUC Compute Element
- Fanless, dust-resistant chassis with I/O board installed; preliminary IP50 rating
- Design implementation: Multi HDMI (CMCR1ABC)
- Dual M.2 22x80 key M slots for PCIe x4 NVMe and SATA SSDs
- Six HDMI ports (2x HDMI 2.0a, 4x HDMI 1.4) with built-in CEC for all ports
 - Support for dual 4k@60Hz or dual triple-wide 5760x1080 screens
- Intel® Optane™ Memory H10 with Solid State Storage ready
- Intel® i219-LM Gigabit Ethernet port
- 1x front and 2x rear USB 3.2 Gen2 type A ports, 1x internal USB 3.2 Gen 1 header
- 1x front type A and 2x internal USB 2.0 headers
- 2x RS232 serial port headers
- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- Qualified for 24x7 operation
- Delayed AC start; DC overvoltage protection
- Display emulation (headless display, virtual display, persistent displays)
- 12 – 24V_{DC} rear jack, internal 2x2 power connector
- Metal chassis, Kensington lock with base security
 - 0~40degC external ambient operating temperature
 - 19V_{DC} 90W power supply adapter with geo-specific AC cords (IEC C5 connector)
 - VESA mounting plate included, with mechanical support for power supply adapter
 - External dipole antennas
 - Chassis dimensions: 254 x 152.4 x 36 mm (plus additional 4.8mm of rubber feet height)
- Microsoft Windows 10, Windows 10 IOT Enterprise, compatible with various Linux distros
- Individual brown-box packaging
- Three-Year product availability
- Three-Year limited warranty

Available SKUs



Mini PC



Kit



Chassis



Board

Intel® NUC Rugged Chassis Element (U-Series)

Austin Beach Chassis		
Product Code	MM#	MM#
BKCMCR1ABA	999M8V	Rugged Chassis: "Expandable" w/no cord
BKCMCR1ABA1	999M93	Rugged Chassis: "Expandable" w/US cord
BKCMCR1ABA2	999M95	Rugged Chassis: "Expandable" w/EU cord
BKCMCR1ABB	999M96	Rugged Chassis: "Dual LAN" w/no cord
BKCMCR1ABB1	999M97	Rugged Chassis: "Dual LAN" w/US cord
BKCMCR1ABB2	999M98	Rugged Chassis: "Dual LAN" w/EU cord
BKCMCR1ABC	999M9A	Rugged Chassis: "Multi HDMI" w/no cord
BKCMCR1ABC1	999M9C	Rugged Chassis: "Multi HDMI" w/US cord
BKCMCR1ABC2	999M9D	Rugged Chassis: "Multi HDMI" w/EU cord

Intel® NUC Essential

Cost-Efficient With Intel® Reliability & Quality

- Choose Intel® Celeron or Pentium
- Space saving @ 0.53-0.65L volume
- Windows 10 Home preinstalled*
- 4K @ 60 Hz with UHD*

*Varies by product



Target Usage Scenarios



Kids
Productivity



Streaming



Entry
Signage

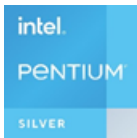
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Intel® NUC 11 Essential

"Atlas Canyon"

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Intel® Pentium® Silver N6005 (NUC11ATKPE)
2.0 GHz – 3.3 GHz burst, 4 core, 4 thread, **15W**
Intel® UHD Graphics, 450 – 900 MHz burst



Intel® Celeron® N5105 (NUC11ATKC4)
2.0 GHz - 2.9 GHz burst, 4 core, 4 thread, **15W**
Intel® UHD Graphics, 450 – 800 MHz burst



Intel® Celeron® N4505 (NUC11ATKC2)
2.0 GHz - 2.9 GHz burst, 2 core, 2 thread, **10W**
Intel® UHD Graphics, 450 – 750 MHz burst

- Dual-channel DDR4-2933 SODIMM slots, 1.2V, 32GB maximum
- 1x HDMI 2.0b and 1x DisplayPort 1.4, both ports support HDCP 2.2
- Supports dual 4K displays
- M.2 22x80 key M slot for PCIe x2 NVMe and SATA SSDs
- Select SKUs with 64GB eMMC Storage
- 1x Gigabit Ethernet port
- Intel® Wireless-AC 9462 M.2 card, dual-band 1x1 w/ diversity + Bluetooth® v5.1, internal antennas
- 2x front USB 3.2 Gen 1, 2x rear USB 3.2 Gen2, and 2x rear USB 2.0
- Up to 7.1 multichannel digital audio via HDMI
- 3.5mm front stereo jack, 3.5mm front microphone jack
- Plastic with metal inner frame, Kensington lock with base security
- 135 x 115 x 36 mm
- 19VDC 65W power supply with geo-specific C5 AC cords
- Microsoft Windows* 11 logo'd; compatible with various Linux distros
- External 9-pin Front Panel Header
- Mounting options: VESA mounting holes built into chassis (for slim profile mounting), picture frame keyholes, mounting indentations for cable ties
- Three-Year product availability
- Three-Year limited warranty



Available SKUs



Mini PC



Kit



Chassis



Board

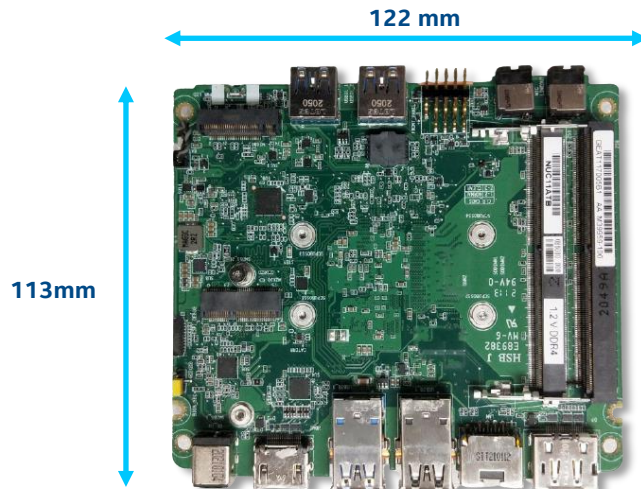
Intel® NUC 11 Essential

"Atlas Canyon" Board

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Intel® Celeron® N5105 (NUC11ATKC4)
2.0 GHz - 2.9 GHz burst, 4 core, 4 thread, 15W
Intel® UHD Graphics, 450 – 800 MHz burst



- Dual-channel DDR4-2933 SODIMM slots, 1.2V, 32GB maximum
- 1x HDMI 2.0b and 1x DisplayPort 1.4, both ports support HDCP 2.2
- Supports dual 4K displays
- M.2 22x80 key M slot for PCIe x4 NVMe and SATA SSDs
- M.2 2230 key E slot for Intel® Wireless-AC 9462 card (sold separately)
- 64GB eMMC Storage
- 1x Gigabit Ethernet port
- 2x front USB 3.2 Gen 1, 2x rear USB 3.2 Gen2, and 2x rear USB 2.0
- Up to 7.1 multichannel digital audio via HDMI
- 3.5mm front stereo jack, 3.5mm front microphone jack
- Approximately 122 x 113 mm
- Microsoft Windows* 11 logo'd; compatible with various Linux distros
- External 9-pin Front Panel Header
- Three-Year product availability
- Three-Year limited warranty

Available SKUs

Mini PC

Kit

Chassis

Board

Intel® NUC 11 Essential

"Atlas Canyon"

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Atlas Canyon L6 Kits

Product Code	MM#	AC Cord (C5)	Processor
Atlas Canyon Pentium Silver N6005 Kit – NUC11ATKPE			
BNUC11ATKPE0000	99ANTF	No Cord	Intel® Pentium® Silver N6005
BNUC11ATKPE000U	99C401	US (USA customers only)	
BNUC11ATKPE0001	99ANTG	US	
BNUC11ATKPE0002	99ANTH	EU	
BNUC11ATKPE0003	99ANTJ	UK	
BNUC11ATKPE0004	99ANTK	AU	
BNUC11ATKPE0006	99ANTM	CN	
Atlas Canyon Celeron N5105 Kit – NUC11ATKC4			
BNUC11ATKC40000	99ANTP	No Cord	Intel® Celeron® N5105
BNUC11ATKC4000U	99C402	US (USA customers only)	
BNUC11ATKC40001	99ANTR	US	
BNUC11ATKC40002	99ANTT	EU	
BNUC11ATKC40003	99ANTV	UK	
BNUC11ATKC40004	99ANTW	AU	
BNUC11ATKC40006	99ANTX	CN	
Atlas Canyon Celeron N4505 Kit – NUC11ATKC2			
BNUC11ATKC20000	99ANV0	No Cord	Intel® Celeron® N4505
BNUC11ATKC2000U	99C403	US (USA customers only)	
BNUC11ATKC20001	99ANV1	US	
BNUC11ATKC20002	99ANV2	EU	
BNUC11ATKC20003	99ANV3	UK	
BNUC11ATKC20004	99ANV4	AU	
BNUC11ATKC20006	99ANV5	CN	

Atlas Canyon L8 Kits

Product Code	MM#	AC Cord (C5)	Processor, Storage
BNUC11ATKPE0S00	99ANTN	No Cord	Intel® Pentium® Silver N6005, 64GB eMMC
BNUC11ATKC40S00	99ANTZ	No Cord	Intel® Celeron® N5105, 64GB eMMC
BNUC11ATKC20S00	99ANV6	No Cord	Intel® Celeron® N4505, 64GB eMMC

Atlas Canyon L10 Mini PCs

Product Code	MM#	AC Cord (C5)	Processor, RAM, Storage, OS
Atlas Canyon Celeron Mini PC – NUC11ATKC2			
BNUC11ATKC20RA0	99ANVP	No Cord	Intel® Celeron® N4505, 4GB DDR4, 64GB eMMC, Windows 11 Home in S Mode
BNUC11ATKC20RAU	99C404	US (USA customers only)	
BNUC11ATKC20RA1	99ANVR	US	
BNUC11ATKC20RA2	99ANW0	EU	
BNUC11ATKC20RA3	99ANW1	UK	
BNUC11ATKC20RA4	99ANW2	AU	
BNUC11ATKC20RA6	99ANW3	CN	

Atlas Canyon Board – NUC11ATBC4

Product Code	MM#	AC Cord (C5)	Processor, Storage
BNUC11ATBC40S00	99ANW4	No Cord	Intel® Celeron® N5105, 64GB eMMC

Intel® NUC 7 Essential

"June Canyon"

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Intel® Pentium® Silver J5040 (NUC7PJYN)
2.0 GHz – 3.2 GHz burst, 4 core, 4 thread, 4MB Cache, 10W
Intel® UHD Graphics 605, 800 MHz



Intel® Celeron® J4025 (NUC7CJYN)
2.0 GHz - 2.9 GHz burst, 2 core, 2 thread, 4MB Cache, 10W
Intel® UHD Graphics 600, 700 MHz



- Dual-channel DDR4-2400 SODIMM slots, 1.2V, 8GB maximum
- 2.5" 9.5mm SATA3 bay and port
- 2x HDMI 2.0a (4K 60Hz), both ports support HDCP 2.2
- Supports dual 4K displays
- 1x Gigabit Ethernet port
- Intel® Wireless-AC 9462 soldered-down, dual-band 1x1 w/ diversity + Bluetooth® v5.1, internal antennas
- 2x front USB 3.2 Gen 1 (one charging), 2x rear USB 3.2 Gen 1, and 2x internal USB 2.0 via header
- Up to 7.1 multichannel digital audio via HDMI
- Front Consumer Infrared port
- SDXC slot with UHS-I support
- Plastic with metal inner frame, replaceable lid, Kensington lock with base security
- 115 x 111 x 51 mm
- 12 – 19V_{DC} input range, 19VDC 65W power supply with geo-specific C5 AC cords
- Front Panel, CEC, RGB LED, 2x USB2.0 headers
- Microsoft Windows* 11, Microsoft Windows* 10 logo'd; Certified with Ubuntu 16.04 LTS; compatible with various Linux distros
- Front panel status RGB LED
- VESA mounting plate included
- Individual retail packaging
- **Three-Year limited warranty**

Available SKUs

Mini PC

Kit

Chassis

Board

Intel® NUC 7 Essential

"June Canyon"

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June Canyon Mini PC Ordering Codes – NUC7CJYSAMN (Without analog audio codec / line-out jack & digital mics)

Product Code	MM#	AC Cord (C5)	Processor	RAM	Storage	OS
BOXNUC7CJYSAMN	99AHT5	None	Intel® Celeron® J4025	4GB DDR4	64GB eMMC	Win10 Home in S Mode
BOXNUC7CJYSAMN1	99AHT6	US				
BOXNUC7CJYSAMN2	99AHT7	EU				

June Canyon Pentium Kit Ordering Codes – NUC7PJYHN (Without analog audio codec / line-out jack & digital mics)

Product Code	MM#	AC Cord (C5)	Processor
BOXNUC7PJYHN	99AHT2	None	Intel® Pentium® Silver J5040
BOXNUC7PJYHN1	99AHT3	US	
BOXNUC7PJYHN2	99AHT4	EU	

June Canyon Celeron Kit Ordering Codes – NUC7CJYHN (Without analog audio codec / line-out jack & digital mics)

Product Code	MM#	AC Cord (C5)	Processor
BOXNUC7CJYHN	99AHRV	None	Intel® Celeron® J4025
BOXNUC7CJYHN1	99AHRW	US	
BOXNUC7CJYHN2	99AHRX	EU	
BOXNUC7CJYHN3	99AHRZ	UK	
BOXNUC7CJYHN4	99AHT0	AU	
BOXNUC7CJYHN5	99AHT1	IN	

Intel® NUC Extreme Laptop Kit

Premium Thin and Light Extreme for the Channel

- 12th Intel® Core™ i7 processor
- Latest Intel® Arc™ Graphics
- RGB Backlit Keyboard
- Thunderbolt™ Technology
- Intel® Two-Year limited warranty (Intel® NUC X15 Laptop)

*Varies by product

Target Usage Scenarios



Gaming



Content
Creation



Productivity



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Intel® NUC X15 Laptop Kit



12th Generation Intel® Core™ i7-12700H
 Up to 4.7 GHz Turbo Boost Max, 6P+8E cores, 20 threads, 24MB Intel® Smart Cache, **45W**
 Intel® Iris® Xe Graphics eligible, up to 1.40 GHz

Discrete Graphics Options:
 Intel® Arc™ A730M Graphics w/ 12GB DDR6
 Intel® Arc™ A550M Graphics w/ 8GB DDR6



- **15.6" Narrow Bezel IPS 16:9 ratio, FHD 144Hz**
- Anodized Aluminum with plastic D-panel Chassis in Black and Gunmetal (Custom SKU Only)
- **Dual-channel DDR5-4800 SODIMM slots, 64GB** maximum
- 1x **M.2 22x80** slot for PCIe x4 Gen4 NVMe and 1 **M.2 22x80** slot for PCIe x4 Gen3 NVMe or SATA SSD
- 1x **Thunderbolt™ 4 / USB4** Type-C port with **DisplayPort 1.4b**
- **Full Size HDMI 2.1 TMDS Compatible** port
- **Intel® Wi-Fi 6 AX201**, 802.11ax 2x2 2.4Gbps + **Bluetooth® v5.2 w/ Bluetooth® Audio offload**
- **1x 2.5 Gb Ethernet** port
- 3x **USB 3.2 Gen 1** Type-A ports
- 3.5mm stereo headset jack
- **Premium Intel® HD Audio**
- Kensington Lock
- **RGB Membrane Keyboard**
- 358.26 mm x 235 mm x 22.2 mm, <2.20kg
- **L6 SKUs** – requires memory, storage, and OS
- **Two-year Warranty (One-year Battery Warranty)**

Better	Best
FHD 144Hz 72% NTSC	
i7-12700H	
Intel® Arc™ A550M	Intel® Arc™ A730M
62Whr Battery	
HD + IR Camera w/ 2 mics, Windows Hello	
Glass Touch Pad	
180W Power Adapter	230W Power Adapter

Available SKUs

Laptop |
 Laptop Kit |
 Chassis |
 Compute Element

Intel® NUC X15 Laptop Kit L6 SKUs

"Alder County"

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Product Code	MM#	CPU	GPU	Display	Memory	Storage	OS	Color	Keyboard Layout	Power Adapter	Power Cord	Regulatory
BAC71GBBU6000	99ANLT	Intel® Core™ i7-12700H	Intel® Arc™ A550 M	FHD 144Hz 72% NTSC	None	None	None	Black	US	180W	None	Argentina, Australia, Austria, Belgium, Bulgaria, Canada, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Malta, Mexico, Netherlands, New Zealand, Norway, Pakistan, Poland, Portugal, Romania, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Taiwan, Turkey, UK, US
BAC71HBBU6000	99C2JP		Intel® Arc™ A730 M						US	230W		

Intel® NUC Performance Laptop Kits

Premium Performance for the Channel

- EVO Branded Laptops
- Intel® Core™ i7 and i5 processors
- 12th Gen with Xe Graphics Architecture
- CNC Anodized Aluminum Chassis (14.9mm, 1.65kg)
- Thunderbolt™ 4 Technology (USB4, power port)
- All day battery life for productivity, media consumption, mobile creators and casual gaming
- Intel® Two-Year limited warranty

Adaptive Usages:

- Wake on Approach
- Walk Away Lock
- No Lock on Presence



*Varies by product

Target Usage Scenarios



Productivity



Content
Creation



Casual
Gaming

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Intel® NUC M15 Laptop Kit

"Rooks County"

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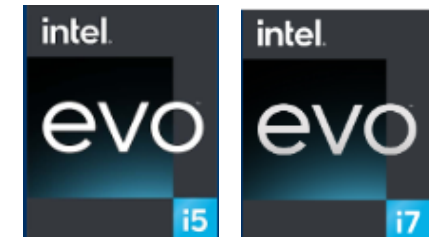
12th Generation Intel® Core™ i7-1260P
12 Processor Cores (4P+8E), 16 threads, 18MB Intel® Smart Cache, 28W TDP (P-Cores Up to 4.7 GHz Turbo, E-Cores: Up to 3.4GHz Turbo)
Intel® Iris® Xe Graphics, Up to 1.4GHz



12th Generation Intel® Core™ i5-1240P
12 Processor Cores (4P+8E), 16 threads, 12MB Intel® Smart Cache, 28W TDP (P-Cores Up to 4.4GHz Turbo, E-Cores: Up to 3.3GHz Turbo)
Intel® Iris® Xe Graphics, Up to 1.3GHz



- EVO SKUs Available
- 15.6" CNC Anodized Aluminum Chassis in Midnight Black or Shadow Gray
- Narrow Bezel IPS 16:9 ratio, FHD 60Hz touch and non-touch options
- Dual-channel 16GB LPDDR5 5200MHz
- 1x M.2 22x80 slot for PCIe x4 Gen4 NVMe
- 2x Thunderbolt™ 4 / USB4 Type-C ports with DisplayPort 1.4b Connectivity
- Full Size HDMI 2.0b port
- Intel® Wi-Fi 6E AX211, 802.11ax 2x2 2.4Gbps w/ 6GHz + Bluetooth® v5.2 w/ Bluetooth® Audio offload
- 2x USB 3.2 Gen2 Type-A ports
- 3.5mm stereo headset jack
- Intel® HD Premium Audio
- HD IR Camera with support for Windows* Hello
- Kensington NanoSaver Lock
- Membrane Backlit Keyboard
- RGB Light Bar with support for Alexa personal voice assistant
- Glass Click Pad with Microsoft* Precision Drivers, disable/enable LED indicator
- 73Whr Battery with fast charging support
- 355 mm x 230 mm x 14.9 mm, <1.7kg
- L7 SKUs – requires storage and OS
- EVO Branded L10 SKUs – requires OEM branded customization
- Compact 65W USB-C Power Adapter with USB-IF Certification and geo-specific C5 AC cords
- Two-Year limited warranty (One-Year battery warranty)



Available SKUs



Intel® NUC M15 Laptop Kit L7 SKUs

"Rooks County"

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Product Code	MM#	CPU	Display	Memory	Color	Keyboard Layout	Power Cord (C5)	Regulatory
BRC710BCG7B02	99AMP7	Intel® Core™ i7-1260P	1080p + Touch	16GB	Midnight Black	German	EU	Australia, Austria, Belgium, Bulgaria, Canada, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Malta, Mexico, Netherlands, New Zealand, Norway, Pakistan, Poland, Portugal, Romania, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, UK, US

Intel® NUC M15 Laptop Kit L10 EVO SKUs

"Rooks County"

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Product Code	MM#	CPU	Display	Memory	Color	Storage	OS	Keyboard Layout	Power Cord (C5)	Regulatory
BRC510EAUxBC1	99AMNA	Intel® Core™ i5-1240P	1080p	16GB	Shadow Gray	512GB	Win11 Home	US	US	Australia, Austria, Belgium, Bulgaria, Canada, China, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Malta, Mexico, Netherlands, New Zealand, Norway, Pakistan, Poland, Portugal, Romania, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, UK, US
BRC510BAUxBC1	99C6HV				Midnight Black					
BRC710ECUxBD1	99AMRA	1080p + Touch	Shadow Gray		1TB					
BRC710BAUxBD1	99C6JZ	1080p	Midnight Black							

Intel® NUC Pro Laptop Kit

Built for Business and Education

- Wide range of CPU, Memory, and Intel® vPro® options
- CNC Anodized Aluminum Chassis
- Thunderbolt™ 4 Technology
- All day battery life on beautiful IPS display w/ touch (13.9")
- Adaptive Usages: Wake on Approach, Walk Away Lock, and No Lock on Presence
- Intel® Two-Year limited warranty

*Varies by product

Target Usage Scenarios



Small Medium
Business



Content
Creation



Education



Leverages Intel® NUC
Compute Element
(U-Series)



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Intel® NUC P14E Laptop Element

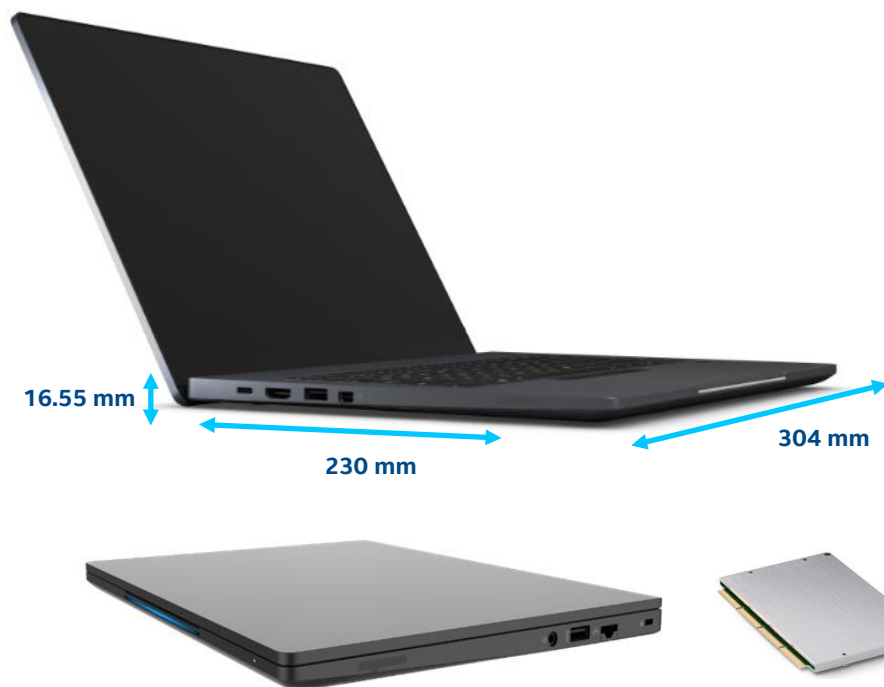
"Camden County"

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Support for Intel® NUC Compute Element (U-series)

All [Elk Bay](#), [Hard Bay](#), and [Icon Bay](#) Compute Elements are supported in Camden County (Core i7 vPro, Core i7, Core i5 vPro, Core i5, Core i3, Celeron)



- 13.9" CNC Anodized Aluminum Chassis in Dark Gray
- Narrow Bezel IPS 3:2 ratio, 3000x2000 pixel, 400nit, 100% sRGB, w/ touch
- Up to 11th Generation Intel® Core™ i7-1185G7 processor (from Elk Bay)
- Up to 12th Generation Intel® Core™ i7-1265U processor (from Hard Bay)
- Up to 13th Generation Intel® Core™ i7 processor (from Icon Bay)
- Dual-channel 4GB to 16GB LPDDR4x dual-channel Memory (from Elk Bay)
- Dual-channel 8GB to 32GB LPDDR5 dual-channel Memory (from Hard Bay & Icon Bay)
- 1x M.2 22x80 slot for PCIe x4 Gen4 NVMe
- Full Size HDMI 2.0b port and Mini DP DisplayPort 1.4a
- 1x Thunderbolt™ 4 / USB4 Type-C port
- 1x Gigabit Ethernet port
- Intel® Wi-Fi 6 AX201, 802.11ax 2x2 2.4Gbps + Bluetooth® 5.2 (from Elk Bay)
- Intel® Wi-Fi 6E AX211, 802.11ax 2x2 2.4Gbps w/ 6GHz + Bluetooth® 5.2 (from Hard Bay & Icon Bay)
- 2x USB 3.2 Gen2 Type-A ports
- 3.5mm stereo headset jack
- Intel® HD Premium Audio
- HD IR Camera with support for Windows Hello
- Fingerprint Reader
- Voice Assistant support for Cortana and Alexa
- Kensington NanoSaver Lock
- Membrane Backlit Keyboard w/ Pointing Stick
- RGB Light Bar with support for personal assistant
- Glass Click Pad with Microsoft Precision Drivers
- 77Whr Battery with fast charging support
- 16.5 mm thin, 1.5kg
- L4 SKUs – requires Compute Element, storage and OS
- Microsoft Windows 11, Microsoft Windows 10
- Compact 65W USB-C Power Adapter with USB-IF Certification and geo-specific C5 AC cords
- MIL-STD-810G tested
- Two-Year limited warranty (One-Year battery warranty)

Available SKUs

Laptop

Laptop Kit

Chassis

Compute Element

Intel® NUC P14E Laptop Element SKUs

"Camden County"

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Camden County L4 Laptop Element		
Product Code	MM#	Description
BKCMCN1CC1DU1	99AGK6	L4, Dark Gray, US English ANSI Keyboard, US Cord
BKCMCN1CC1DJ9	99AGK8	L4, Dark Gray, Japanese JIS Keyboard, JP Cord
BKCMCN1CC1DK3	99AGKF	L4, Dark Gray, UK English ISO Keyboard, UK Cord
BKCMCN1CC1DG2	99AGKH	L4, Dark Gray, German ISO Keyboard, EU Cord
BKCMCN1CC1DI2	99AGKJ	L4, Dark Gray, Italian ISO Keyboard, EU Cord
BKCMCN1CC1DF2	99AGKK	L4, Dark Gray, French ISO Keyboard, EU Cord
BKCMCN1CC1DL1	99AGKM	L4, Dark Gray, LAR Spanish ISO Keyboard, US Cord
BKCMCN1CC1DU4	99AGKN	L4, Dark Gray, US ANSI Keyboard, AU Cord
BKCMCN1CC1DU6	99AGKP	L4, Dark Gray, US ANSI Keyboard, CN Cord
BKCMCN1CC1DB2	99C04L	L4, Dark Gray, Blank ISO Keyboard, EU Cord

AC Cords

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Bulk AC Cords

- All new NUC families shipping Q3'2017 and later include a corded power-brick AC adapter, instead of the wall-wart adapter with replaceable plugs. Each NUC SKU will either include one SKU-specific AC cord, or no AC cord (just the power adapter). Refer to the Ordering Codes table shown in the one-pagers for details on each SKU, and the cord type required (C5 or C13).
- NUC SKUs with US, EU, UK, AU, and CN cords included are immediately available, at order quantity in multiples of 5
- For orders that require IN, AR, BR, JP/TW, and ZA AC cords, the no-cord SKU must be ordered along with the appropriate AC cord below. As with NUC SKUs, the AC cord SKUs also come in 5-packs.
- To determine the AC cord type required, please refer to the product's one-pager in this roadmap deck



AC Cord Ordering Codes – C5 Type			
Length	Plug Type	Product Code	MM#
0.6 m / 2 ft.	India	AC06C05IN	962133
	China	AC06C05CN	962138
	Argentina	AC06C05AR	962140
	Japan / Taiwan	AC06C05JP	962141
	Brazil	AC06C05BR	962142
	South Africa	AC06C05ZA	962143
	Switzerland	AC06C05CH	962982
	USA	AC06C05US	979493
	EU	AC06C05EU	979494
	UK	AC06C05UK	979495
	AU	AC06C05AU	979504



AC Cord Ordering Codes – C13 Type			
Length	Plug Type	Product Code	MM#
0.6m / 2 ft.	India	AC06C13IN	976384
	China	AC06C13CN	976385
	Argentina	AC06C13AR	976386
	Japan / Taiwan	AC06C13JP	976387
	Brazil	AC06C13BR	976388
	South Africa	AC06C13ZA	976389
	Switzerland	AC06C13CH	976390
	USA	AC06C13US	979516
	EU	AC06C13EU	979535
	UK	AC06C13UK	979536
	AU	AC06C13AU	979537
	1.8m / 6 ft.	USA	AC18C13US
EU		AC18C13EU	99AAVV
UK		AC18C13UK	99AAVW
AU		AC18C13AU	99AAVX
India		AC18C13IN	99AAW2
China		AC18C13CN	99AAW3
Argentina		AC18C13AR	99AAW4
Japan / Taiwan		AC18C13JP	99AAW5
Brazil		AC18C13BR	99AAW6
South Africa		AC18C13ZA	99AAW7
Switzerland		AC18C13CH	99AAW9

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Resources

- **Technical Product Specification**
<https://www.intel.com/content/www/us/en/support/articles/000005545/intel-nuc.html>
- **Elements-U Product Specs**
<https://www.intel.com/content/www/us/en/support/articles/000055720/intel-nuc/intel-nuc-elements.html>
- **Regulatory**
<https://www.intel.com/content/www/us/en/support/articles/000006130/intel-nuc.html>
- **Supported OS for Intel® NUCs**
<https://www.intel.com/content/www/us/en/support/articles/000005628/mini-pcs.html>
- **Mechanical Drawings for Intel® NUCs**
<https://www.intel.com/content/www/us/en/support/articles/000006820/mini-pcs.html>
- **Technical Product Spec's documents for Intel® NUCs**
<https://www.intel.com/content/www/us/en/support/articles/000005545/mini-pcs.html>
- **Access and download the latest drivers and BIOS for our Intel® NUCs**
<https://downloadcenter.intel.com/>
- **How to contact Intel Customer Support**
<https://www.intel.com/content/www/us/en/support/contact-support.html>
- **Intel® NUC Compatible chassis and products**
<https://www.intel.com/content/www/us/en/products/docs/boards-kits/nuc/nuc-ecosystem-enabling-technical-spec.html>

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