Intel® NUC Element Family (U-series)

Unlock Value with Modular Computing

Easily create, customize, and refresh integrated systems and full mini PC solutions
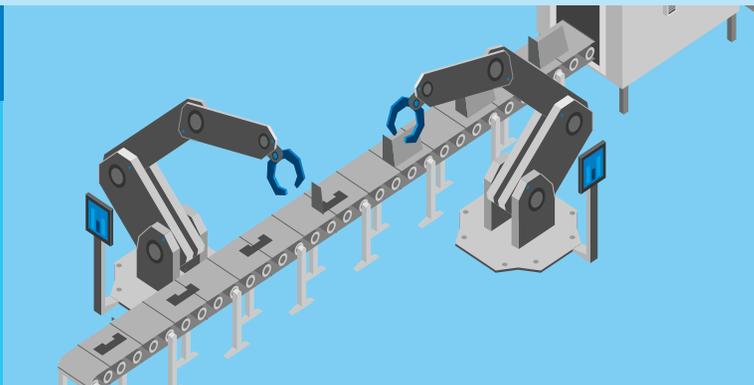
intel®
nuc
element

Reimagining Computing So You Can Imagine New Solutions

The Intel® NUC Element product family offers a flexible way to design and build integrated solutions and mini PCs for a range of verticals. Integrate compute, boards, and chassis as needed to create small, high-performance systems or full solutions—all with minimal R&D time and low inventory costs.

By transforming how systems can be designed and built, Intel has once again revolutionized computing to drive business success.

Intel NUC Element products include:

• Intel® NUC **Compute Element** with processor, memory, and wireless capability

• Intel® NUC **Board Element and Assembly Element** options for integrated solutions

• Intel® NUC **Chassis Element** for collaboration or rugged environments

Build What You Want, When You Want It

Intel innovation, your integration

In business today, one size does not fit all. Intel developed the Intel® NUC Element line of products to give you a better way to design, build, and service custom deployments to meet a wide range of customer needs.

With the performance and reliability you've come to expect from Intel, this modular product line is another example of how Intel-designed innovations are answering the world's toughest business and education challenges.

How it works

To build a customized deployment for your market, start with an Intel NUC Compute Element with the Intel® processor you need. Select SKUs also come with the Intel vPro® platform for remote manageability, hardware-enhanced security, and PC fleet stability.

Pair the Intel NUC Compute Element with an Intel NUC Board Element qualified for 24/7 sustained operation or with your own or a third-party board. Use an Intel NUC Chassis Element to build a full mini PC solution for collaboration or rugged environments.

Key features

- Modular components for just-in-time system building
- Small size for a wide range of deployments
- Easy upgrades with forward-compatible components
- Remote management (with the Intel vPro® platform)
- 3-year product availability
- 3-year warranty

Intel® NUC Compute Element

Every deployment begins with an Intel NUC Compute Element. Available with the full range of powerful Intel processors, each Compute Element also offers memory, storage, and multiple I/O options—all in a surprisingly small package.

To integrate compute with connectivity for stationary or mobile systems, pair an Intel NUC Compute Element with an Intel NUC Board Element. To build an I/O-rich collaboration solution, integrate with an Intel® NUC Pro Chassis Element. For deployments in harsh environments, integrate with an Intel® NUC Rugged Chassis Element.
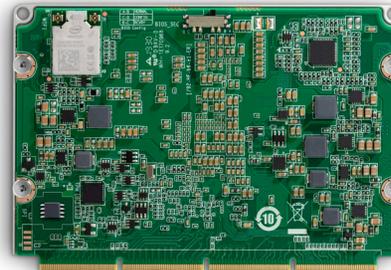

Intel® NUC 11 Compute Element

Available Products
- CM11EBv7–Intel® Core™ i7 processor with Intel vPro® technology
- CM11EBi7–Intel® Core™ i7 processor
- CM11EBv5–Intel® Core™ i5 processor with Intel vPro® technology
- CM11EBi5–Intel® Core™ i5 processor
- CM11EBi3–Intel® Core™ i3 processor
- CM11EBC–Intel® Celeron® processor

Intel® NUC 8 Compute Element

Available Products
- CM8v7CB–Intel® Core™ i7 processor with Intel vPro® technology
- CM8i7CB–Intel® Core™ i7 processor
- CM8v5CB–Intel® Core™ i5 processor with Intel vPro® technology
- CM8i5CB–Intel® Core™ i5 processor
- CM8i3CB–Intel® Core™ i3 processor
- CM8PCB–Intel® Pentium® Gold processor
- CM8CCB–Intel® Celeron® processor

Intel® NUC Board/Assembly Elements

Intel® NUC Board/Assembly Elements are ideal for providers creating integrated systems. Available as modular boards or as assemblies with added rack and thermal solutions, they are qualified for 24/7 sustained operations and feature and an internal DC connector.

Pair an Intel NUC Board/Assembly Element with a compatible Intel NUC Compute Element to build a small, integrated, high-performance system for a range of verticals.

Compatible with:
- Intel® NUC 11 Compute Element
- Intel® NUC 8 Compute Element

Intel NUC Board and Assembly Available Products
- CMB2GB–Board
- CMA2GB–Assembly
- CMB1BB–Board
- CMA1BB–Assembly

Intel NUC Rugged Board Available Products
- CMB1ABA–Expandable
- CMB1ABB–Dual LAN
- CMB1ABC–Multi HDMI

Intel® NUC Board/Assembly Elements

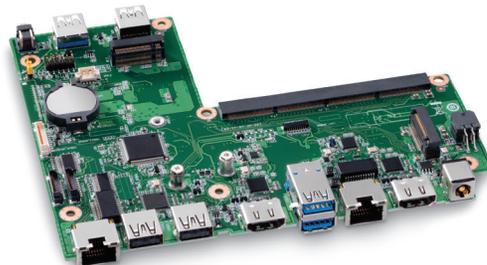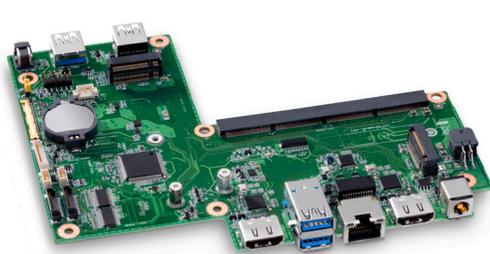Available as a carrier board only or with a thermal solution

CMB2GB & CMA2GB: Compatible with Intel NUC 11 Compute Element and beyond

CMB1BB & CMA1BB: Compatible with 8th gen and 11th gen Intel NUC Compute Elements

Intel® NUC Rugged Board Elements

Available with three design options: Expandable, Dual LAN, and Multi HDMI

Intel® NUC Chassis Elements

Each Intel® NUC Chassis Element is designed to deliver years of nonstop performance in a variety of business, educational, and industrial environments. Every chassis is compatible with any Intel NUC Compute Element, making it easy to upgrade to more powerful processors as needs change.

The Intel® NUC Rugged Chassis Element is designed for harsh and extreme environments with one of three integrated rugged boards. The Intel® NUC Pro Chassis Element comes in two space-saving, I/O-rich designs to support all-day collaboration.

Compatible with:
- Intel® NUC 11 Compute Element
- Intel® NUC 8 Compute Element

Intel NUC Pro Chassis Element Available Products
- CMCM2FB–Base
- CMCM2FBAV–Video Capture & Audio

Intel NUC Rugged Chassis Available Products
- CMCR1ABA–Expandable
- CMCR1ABB–Dual LAN
- CMCR1ABC–Multi HDMI

Intel® NUC Pro Chassis Elements

Available in two chassis designs with integrated I/O board: Base Design and a Video Capture and Audio Design (with added HDMI video capture)

Intel® NUC Rugged Chassis Elements

Available in three chassis designs with integrated I/O board: Expandable, Dual LAN, and Multi HDMI

The Power of Modularity for Custom Solutions

Configuration options:

1
Intel® NUC Compute Element
+
Board
+
Thermal Solution Engineering
+
Chassis

Complete Solution

2
Intel NUC Compute Element
+
Intel® NUC Board Element
+
Thermal Solution Engineering
+
Chassis

Complete Solution

3
Intel NUC Compute Element
+
Intel® NUC Board/Assembly Elements
+
Chassis

Complete Solution

4
Intel NUC Compute Element
+
Intel® NUC Chassis Element

Complete Rugged or Pro Solution

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