

INTEL® NUC RUGGED BOARD AND CHASSIS ELEMENT



U-Series Technical Specifications

The Intel® NUC Rugged Board Elements are modular carrier boards designed to work with a range of Intel NUC Compute Elements (U-Series). Available in two configurations. The Intel NUC Rugged Chassis Elements are designed to house an Intel NUC Compute Element and Rugged Board combination. Available in two configurations.

AVAILABLE PRODUCTS

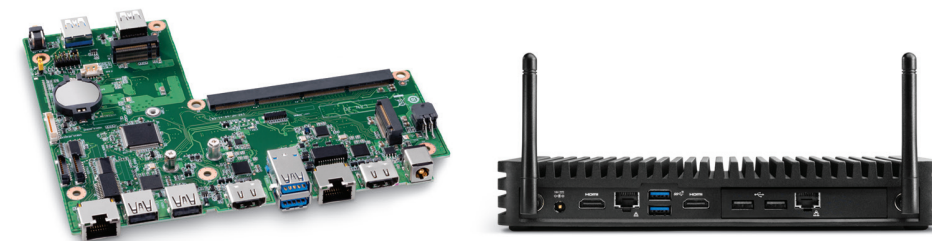
- CMB1ABA–Intel® NUC Rugged Board Element (Expandable)
- CMB1ABB–Intel® NUC Rugged Board Element (Dual LAN)
- CMCR1ABA–Intel® NUC Rugged Chassis Element and Expandable Board
- CMCR1ABB–Intel® NUC Rugged Chassis Element and Dual LAN Board



Intel® NUC Rugged Board (Expandable) and Intel® NUC Rugged Chassis



Intel® NUC 8 Compute Element,¹ Intel® NUC Rugged Board and Intel® NUC Rugged Chassis



Intel® NUC Rugged Board (Dual LAN) and Intel® NUC Rugged Chassis



Fanless, dust-resistant chassis

INTEL® NUC RUGGED BOARD AND CHASSIS ELEMENT

U-Series Technical Specifications

For more information visit
www.intel.com/nucassets
ARK.intel.com

GRAPHICS

- Dual HDMI* 2.0a

STORAGE CAPABILITIES

- 2 M.2 2280 key M slot for PCIe x4 NVMe and SATA SSDs
- Intel® Optane™ memory H10 with Solid State Storage ready

PERIPHERAL CONNECTIVITY

- Intel® i219-LM 10/100/1000 Mbps RJ45 Ethernet
- Three USB 3.1 gen 2 type A ports (one front panel port and two back panel ports)
- 1x internal USB 3.0 header
- EDID emulation

CMCR1ABA & CMCR1ABC

- 2x internal USB 2.0 headers

CMCR1ABB

- Intel® i211-AT GbE LAN (additional)
- Internal 4-lane eDP connector
- Two USB 2.0 ports (back panel)

EXPANSION CAPABILITIES

- 1x internal USB 3.0 header
- 2x internal USB 2.0 headers
- 2x RS232 serial port header

CMCR1ABB & CMCR1ABA

- Dual HDMI with built-in CEC

CMCR1ABC

- Six HDMI with built-in CEC

AUDIO

- Up to 7.1 multichannel (or dual 8-channel) digital audio via HDMI

FRONT PANEL HEADER

- Vcc5/1A, 5Vsby/2A, 3.3Vsby/1A
- Power Switch, Reset Switch, Power LED, Storage LED

MECHANICAL CHASSIS

- 10" x 5.98" x 1.41"
- 254 mm x 152 mm x 36 mm
- Kensington lock ready
- VESA mounting plate with power adapter bracket
- External dipole antennas

MECHANICAL BOARD SIZE

CMCR1ABA, CMCR1ABB

- 6.69" x 5.35"
- 170 mm x 136 mm

CMCR1ABC

- 7.87" x 5.35"
- 200 mm x 136 mm

CARRIER BOARD CAPABILITIES

- 19VDC 90W power supply adapter with geo-specific AC cords
- 12 – 24VDC rear jack, internal 2x2 connector
- Qualified for 24x7 sustained operation
- Delayed AC start
- DC transient voltage suppression

TEMPERATURE

ENVIRONMENT OPERATING

- 0° C to +40° C Chassis
- 0° C to +50° C Board

STORAGE

- -20° C to +40° C

SAFETY REGULATIONS AND STANDARDS

- IEC/EN/UL 60950-1
- IEC/EN/UL 62368-1

EMC/RF REGULATIONS AND STANDARDS

- FCC Part 15B/15C/15E
- CISPR/EN 55032/55024
- ICES-003
- VCCI 32
- BSMI CNS 13438
- KN 32/35
- AS/NZS CISPR 32
- EN 300 328
- EN 301 893
- EN 300 440
- EN 301 489-1/3/17
- EN 62311
- AS/NZS 4268
- AS/NZS 2772.2
- ARPANSA

ENVIRONMENTAL REGULATIONS

- EU RoHS
- China RoHS
- Taiwan BSMI RoHS
- REACH

REQUIRES AN INTEL NUC COMPUTE ELEMENT (U-SERIES)

INTEL NUC 8 COMPUTE ELEMENT PROCESSOR

Processor options:

- Intel® Core™ i7 vPro® processor (CM8v7CB8)
- Intel® Core™ i7 processor (CM8i7CB8)
- Intel® Core™ i5 vPro® processor (CM8v5CB8)
- Intel® Core™ i5 processor (CM8i5CB8)
- Intel® Core™ i3 processor (CM8i3CB4)
- Intel® Pentium® processor (CM8PCB4)
- Intel® Celeron® processor (CM8CCB4)

INTEL NUC 8 COMPUTE ELEMENT GRAPHICS

- Intel® UHD Graphics 620 (Intel® Core™ processors)
- Intel® UHD Graphics 610 (Intel® Pentium® and Celeron® processors)


* Intel® NUC 8 Compute Element sold separately.

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