Bravo Canyon

ASUS NUC 13 Rugged – NUC13BRFA2

intel INSIDE

Simply NUC®

Bravo Canyon FA2

ASUS NUC 13 Rugged – NUC13BRFA2

Intel® Partner Alliance
Titanium Partner

Built to be Embedded

Bravo Canyon, the latest Intel-based Rugged NUC, is available in three processor variants, from the dual core Celeron N50, to a quad core Atom x7425E, built to provide compute power wherever you need it, from industrial applications in the factory, to kiosk applications in the airport terminal, Bravo Canyon was built to be embedded. Choose between two fanless chassis options, the internal, or external heatsink to best fit your deployment requirements. Bravo Canyon features all of its out of the box I/O, status LEDs and power button on the same side, with an optional I/O expansion panel on the side, allowing you to fit your unit into the tightest of spaces.

Highly Customizable

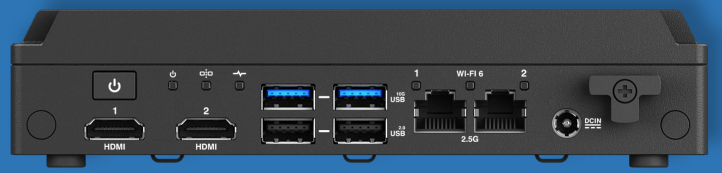
Featuring three processor variants, two different chassis options, up to 16GB of DDR5 memory, and up to 8TB of NVMe Gen3 storage, your Bravo Canyon units can be fully customized to fit your deployments needs. Equipped with dual 2.5Gb LAN ports, dual HDMI 2.1 ports and four USB-A ports, Bravo Canyon has the I/O options you need to succeed. If the out of the box configuration isn't enough, you can upgrade your units with the expansion panel on the side, giving you the flexibility you need to simplify your infrastructure.

Designed to Last

Both Bravo Canyon fanless chassis options are IP50 rated, making them ideal for dusty environments, paired with their ability to operate 24/7, makes it the perfect choice for a warehouse or factory deployment, where reliability and longevity are key. Develop your system on Bravo Canyon, based on its 5-year availability, you can be assured that for longer to deploy projects, you have the consistent equipment you need to create a robust IT infrastructure. Get connected in remote areas, thanks to the built-in SIM card slot and 30x42 M.2 socket allowing for an optional LTE kit on Bravo Canyon, giving you access to a 4G network wherever you need it.

Features

- Intel® Atom Processor x7211E
- Intel® UHD Graphics
- 1x DDR5-4800 SO-DIMM Socket
- 1x M.2 22x80 M-key supporting PCIe x2 Gen3 NVMe
- 1x M.2 30x42 B-Key supporting SATA SSDs, I/O expansion, or LTE module
- SIM card slot
- 2x HDMI 2.1 TMDS
- Intel® Wi-Fi 6E + Bluetooth 5.3
- 2x Intel 2.5Gb LAN (Intel i226)
- 2x USB 3.2 Gen2 Type-A
- 2x USB 2.0 Type-A
- 2x USB 2.0 headers
- Fanless Chassis (FA2 and FA4)
- Robustness status LEDs
- 24x7 operation
- Side expansion panel
- IP50 rated
- Built-in mounting options
- Kensington lock support
- 20V, 65W power supply included
- Extended service support (3, 5-year)



Customization

- Primary storage up to 8TB Gen3 NVMe
- Memory up to 16GB
- Side panel expansion
- OS options: Windows 11 Home & Pro, Windows IoT, Ubuntu

Simply NUC
THINK BIG, go mini

Technical Specification

Processor	Intel® Atom Processor x7211E | Dual-Core | Up to 3.2Ghz Turbo | 6MB Cache | 6W TDP
Graphics	Intel® UHD Graphics up to 0.75GHz | 2x 4K Displays Supported via: 2x HDMI 2.1 TMDS)
Memory	Single DDR5-4800 SODIMM 1.2V | 16GB Max
Storage	1x M.2 22x80 socket supporting PCIe x2 Gen3 NVMe from 128GB to 8TB or SATA SSD from 128GB to 2TB
Peripherals	Intel Wi-Fi 6E AX210 + Bluetooth 5.3 | 2x Intel 2.5Gb LAN (i225-V) | 2x Front USB 3.2 Gen2 Type-A | 2x Front USB 2.0 Type-A
Chassis	174x108x35.8mm | Kensington lock support | Built-in mounting options (Keyhole, zip tie holes, VESA mount)
Expansion	2x USB 2.0 header | 1x MIPI CSI header | 1x Front panel header | Side expansion panel
Power	12-24V_{DC} Input Supply Range | 19V_{DC}, 65W Power Supply Included
Additional Features	Intel® TCC/TSN | Delayed AC start | Transient voltage suppression | Display emulation | Support for Intel® NUC Pro Software Suite (Windows/Linux) | Pipelock & built-in CEC (both HDMI)

Certifications and Regulations

Safety Regulations and Standards	J62368-1 (2020) | GB 17625.1-2012 | GB 4943.1-2011 | GB/T 9254.1-2021 (Class A) | KCC | UL 62368-1: 2019 | EN IEC 62368-1:2020
EMC/RF Regulations & Standards	FCC CFR Title 47, Chapter I, Part15, Subparts B, C, E | ETSI EN 301 489-1 V2.2.3 (2019-11) | Draft ETSI EN 301 489-17 V3.2.5 (2022-08) | EN 55032:2015 | EN 55035:2017 | EN IEC 61000-3-2:2019 | EN 61000-3-3:2013 | ETSI EN 300 328 V2.2.2 (2019-07) | EN 61000-3-3:2013
Environmental Regulations	RoHS Compliant | REACH Compliant
Certified Operating Systems	Windows 11 (Pro and Home) | Windows IoT | Linux (Ubuntu)
Environmental Operating Temp etc.	0°C to +50°C | Non-Condensing Humidity