

DATA SHEET

NUC10I3FNH-BB, NUC10I5FNH-BB, NUC10I5FNH-BB

I3, I5, I7 CORE MINI PC

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



OVERVIEW

MINI PC DATA SHEET

INTRODUCTION

This affordable PC features a 10th Gen Intel® Core™ i3, i5, or i7 NUC 10 Performance Processor.

Use at Home

Stream 4K video, edit media, work from home, or finish your homework. The Mini PC is small enough to store in a drawer. You will stream premium movies and experience high fidelity audio and immersive 4K Ultra HD video powered by Intel UHD Graphics. The Mini PC performs great for home office and school applications, and can transfer files with high-speed connection options. The PC features a 10th Gen Intel Core i3, i5, or i7 processor, making it an affordable media player.

10th Gen Processing Power

Featuring the latest 10th Gen Intel Core processors and support for up to 64 GB of high speed DDR4 RAM, you have more CPU power than ever in a 4 x 4 form factor. Combine this with Intel UHD Graphics, Thunderbolt™ 3, DisplayPort, and HDMI capability for the optimal visual experience and up to three 4K displays.

Watch, Work, and Game in 4K

Intel UHD Graphics provide a brilliant 4K experience for home or the office. You can watch theater-quality videos or grab a game controller and answer the call of duty. You also have the performance you need to create content without having to wait as your video and images render. Quick charging gets you going faster than ever.

Cut Cords, Not Performance

Access your digital life out of the box with the latest Intel Wi-Fi® 6 and Bluetooth® 5 technology. Connect your Mini PC to a Wi-Fi device for rich visuals and audio without the clutter of cables. And the quad-mic array makes for a great virtual personal assistant experience from anywhere in your home.

Selecting Your PC

Three models are available: choose from i3, i5, or i7 Intel “Core” processors.

- Intel Core i3 NUC 10 Performance Processor (NUC10i3FNH-BB)
- Intel Core i5 NUC 10 Performance Processor (NUC10i5FNH-BB)
- Intel Core i7 NUC 10 Performance Processor (NUC10i7FNH-BB)

A higher-numbered Core processor will perform better than a lower-numbered one. With several technology generations on the market at the same time, you can sometimes save money if an older-generation chip has the specs you want.

So how do you choose? If your Mini PC is primarily used to display video streams, word processing spreadsheets, photos, and online banking feeds, choose the i3 processor. For moderately demanding business applications and content creation (video editing, animation, etc.), choose the i5 processor. For highly demanding applications, such as faster 3D rendering, live-streaming, and workstation-level projects, the i7 processor is your best fit.

FEATURES

- Uses 10th Generation Intel® Core i3, i5, or i7 processor
- Displays Intel UHD Graphics
- Includes two DDR4-2666 SO -DIMM Sockets
- M2 slot supports PCI or SATA SSDs
- Intel Optane™ Memory ready
- All models have a 2.5" SATA drive bay
- SDXC card slot (UHS-II)
- Conforms to HDMI 2.0a supporting 4K
- Includes Thunderbolt 3 (supports Alt-DP)
- Works with Intel Gigabit LAN , Wi-Fi® 6, and Bluetooth 5
- Has five USB 3.1 Gen. 2 ports (10 GB) (one charging)
- Optimizes Digital audio 7.1 surround sound and a far-field quad-array microphone
- Go wireless with Internal dual-band antennas
- Includes consumer IR receiver
- Supports a Kensington lock
- Powered via a 19-VDC jack (12- to 19-VDC operation)
- Mounts using a VESA mount kit
- Customize with DDR4 RAM 4 GB–64 GB, M2 SSD 128 GB–2 TB, 2.5 SATA 64 GB–8 TB, and two USB 2.0 headers



SPECIFICATIONS

MINI PC DATA SHEET

FRONT VIEW



NUC10i3FNH-BB

BACK VIEW



NUC10i3FNH-BB

MINI PC (NUC10i3FNH-BB, NUC10i5FNH-BB, AND NUC10i7FNH-BB)	
PROCESSOR	NUC10i3FNH-BB: Intel® Core™ i3-1011U processor (2.1 GHz with 4.1 GHz Turbo, Dual Core, Hyper-thread, 4 MB Cache, 25 W TDP) NUC10i5FNH-BB: Intel Core i5-10210U processor (1.6 GHz with 4.2 GHz Turbo, Dual Core, Hyper-thread, 6 MB Smart Cache, 25 W TDP) NUC10i7FNH-BB: Intel Core i7-10210U processor (1.1 GHz with 4.7 GHz Turbo, Dual Core, Hyper-thread, 12 MB Smart Cache, 25 W TDP)
STORAGE CAPABILITIES	<ul style="list-style-type: none"> • One M.2 socket supporting 22 x 42 or 22 x 80 M.2 SSDs, SATA or PCIe, 2 TB max. • Intel Optane™ Memory ready. • One SATA 3 port for connection to 2.5" HDD or SSD up to 9.5-mm thick (4 TB SSD or 2 TB HDD max.)
AUDIO	<ul style="list-style-type: none"> • Up to 7.1 surround via HDMI • Front headset jack • Quad-array far-field beam-forming microphones
HARDWARE MANAGEMENT	<ul style="list-style-type: none"> • Voltage and temperature sensing • ACPI-compliant power management control • Processor fan speed control • Sensors monitor fan activity
GRAPHICS	<ul style="list-style-type: none"> • Intel HD Graphics • One HDMI 2.0a port • USC Type C port with DisplayPort 1.2 • Max. three 4K @ 60 Hz displays
PERIPHERAL CONNECTIVITY	<ul style="list-style-type: none"> • Intel Gigabit LAN i219-V • Three USB 3.1 Gen2 Type-A ports (two back; one front) • Two USB 3.1 Gen2 Type-C port (one back; one front with charging) • Two additional Hi-Speed USB 2.0 ports via internal header • Intel Wi-Fi® 6 AX200 (802.11ax), 2 x 2, up to 2.4 Gbps • Bluetooth® 5 • Thunderbolt 3 on USB Type-C port • Consumer infrared receiver on front
BASEBOARD POWER REQUIREMENTS	<ul style="list-style-type: none"> • 19 V, 90 W AC-DC power adapter • 12 to 19 VDC input range • International cords available
DIMENSIONS	2.0" H x 4.6" W x 4.4" D (5.1 x 11.7 x 11.2 cm)
SYSTEM MEMORY	Two DDR4-2666 SO-DIMM sockets, 64 GB Max., 1.2 V
SYSTEM BIOS	<ul style="list-style-type: none"> • 64 MB Flash EEPROM with Intel Platform Innovation Framework for EFI Plug and Play • Advanced configuration and power interface V3.0b, SMBIOS2.5 • Intel Visual BIOS • Intel Express BIOS update support
FRONT-PANEL HEADER	Reset, HDD LED, Power LEDs, power on/off
EXPANSION CAPABILITIES	<ul style="list-style-type: none"> • Two USB 2.0 ports on two 1 x 4 headers • 2.5-in drive bay for SATA drive • Functional or decorative lid support • HDMI CEC header
SAFETY COMPLIANCE	<ul style="list-style-type: none"> • IEC 60950-1 • UL 60950-1 • EN 60950-1 • CAN/CSA-C22.2 No. 60950-1

SPECIFICATIONS (CONTINUED)

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MINI PC (NUC10I3FNH-BB, NUC10I5FNH-BB, AND NUC10I7FNH-BB)	
OPERATING TEMPERATURE	32 to 122° F (0 to 50° C)
STORAGE TEMPERATURE	-40 to +140° F (-40 to +60° C)
EMC/RF REGULATIONS AND STANDARDS	<ul style="list-style-type: none">• CISPR 52• FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E• ICES-005• EN 55052• EN 55024• ETSI EN 500 528• ETSI EN 501 489-1• ETSI EN 501 489-17• ETSI EN 501 895• EN 62511• AS/NZS 2772.2• AS/NZS 4268• VCCI V-2, V-5, V-4• KN-52• KN-24• CNS 15458
ENVIRONMENTAL REGULATIONS	<ul style="list-style-type: none">• RoHS Directive 2011/65/EU• WEEE Directive 2012/19/EU• China RoHS

ORDERING INFORMATION

ITEM	CODE
Mini PC, Intel Core NUC 10 Performance Processor	
i3	NUC10i3FNH-BB
i5	NUC10i5FNH-BB
i7	NUC10i7FNH-BB

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Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

