

INTNUC-10027 Product Manual - Intel Next Unit of Computing (NuC) NUC8i3BEH

INTNUC-10027 Product Specification, Layout and Manual

Product highlights:

- Intel® Core™ i3-8109U processor, (3.0 GHz to 3.6GHz dual-core with hyper-threading, 4 MB cache, 28W TDP).
- Two SO-DIMM slots supporting up to 32 GB of 2400 MHz 1.2V DDR4 memory.
- Intel® Iris Plus 655 graphics, providing one HDMI v2.0a port & one Thunderbolt 3 port (USB-C physical port) which supports DisplayPort v1.2 (Up to 3 displays can be supported simultaneously).
- Intel® High Definition Audio (Intel® HD Audio via front panel audio headset/mic jack and 8 channel digital sound via HDMI and DisplayPort).
- Intel Gigabit Ethernet Controller.
- Intel Wireless-AC 9560 M2 module with internal wireless antennas, also includes Bluetooth 4.2.
- Internal support for one SATA 6.0GB/s 2.5-inch **SATA HDD** or **SSD** (up to 9.5 mm thickness).
- One M2 Type M connector supporting 22x42 or 22x80 M2 SSD (SATA and PCIe x1/x2/x4).
- Micro SD slot with UHS-I support.
- Four super high-speed **USB** 3.0 ports (two back panel ports and two front ports, one of which is charging capable).
- Thunderbolt 3 port supporting USB3.1 gen 2 and 40GB/s Thunderbolt.
- Consumer IR sensor.
- Dual array front microphones.
- Intel Optane support.

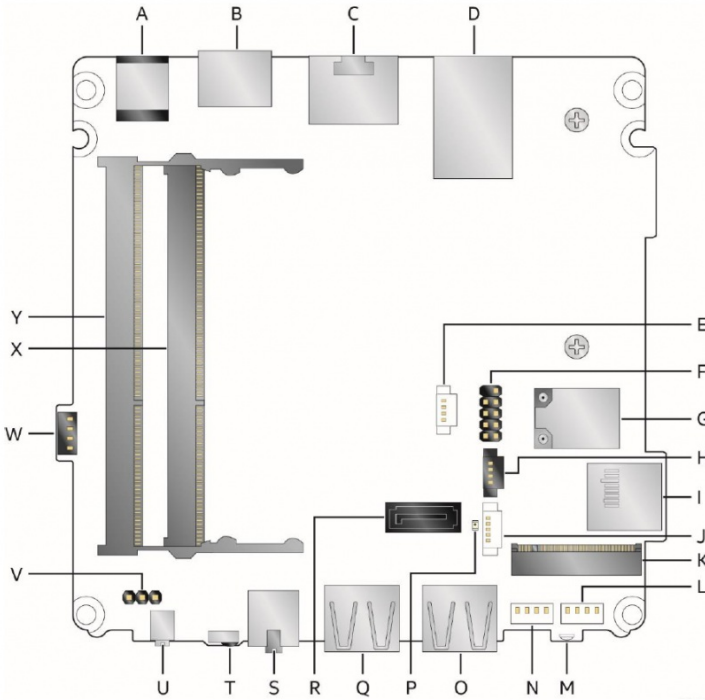
POWER, CAPABILITIES, AND PERFORMANCE IN A NEAR-ZERO FOOTPRINT

Highlighted Features

- 1 8th generation Intel® Core™ i3-8109U processor
- 2 Iris® Plus Graphics 655
- 3 Two DDR4 SO-DIMM sockets (up to 32 GB, 2400 MHz)
- 4 1x SATA3 port for connection to 2.5" HDD or SSD (NUC8i3BEH)
- 5 M.2 slot with flexible support for a 42 or 80 mm M.2 SSD
- 6 Intel® Optane™ memory ready (up to 32 GB, NUC8i3BEH)
- 7 Intel® Dual Band Wireless-AC 9560 and Bluetooth® 5.0
- 8 Back panel DC power connector (12–19V)
- 9 HDMI® 2.0a display port supporting 8 channel audio (7.1 surround sound)
- 10 Intel® Gigabit LAN
- 11 Two USB 3.1 ports on the back panel
- 12 Thunderbolt™ 3 USB Type-C port providing DisplayPort® 1.2 or USB 3.1 gen 2
- 13 Kensington lock support
- 14 Support for user-replaceable third-party lids
- 15 Micro SD card slot
- 16 Consumer infrared sensor
- 17 Two USB 3.1 ports (including one charging port) on the front panel
- 18 Front panel headphone/microphone jack
- 19 Front panel power button
- 20 Dual-array front microphones



NUC8i3BEH



	Description
A	DC Input Jack
B	HDMI connector
C	LAN connector
D	USB 3.1 ports (blue)
E	Digital Microphones (DMICs) header
F	Front Panel header
G	Intel Dual Band Wireless AC + Bluetooth 9560 module
H	RGB (HDD) LED header
I	Micro SDXC slot
J	SATA power connector (1.25 mm pitch)
K	M.2 connector (key type M) for 2242 and 2280 modules
L	Front panel single-port USB 2.0 header (1.25 mm pitch)
M	HDD Activity LED
N	Front panel single-port USB 2.0 header (1.25 mm pitch)
O	Front panel USB 3.1 connector (blue)
P	Standby LED
Q	Front panel USB 3.1 connector (orange, charging)
R	SATA 6.0 Gbps connector
S	Front panel stereo microphone/headphone jack
T	Consumer Infrared (CIR) sensor
U	Front panel power button
V	BIOS security header & jumper
W	Consumer electronics control (CEC) header
X	DDR4 SO-DIMM1 socket
Y	DDR4 SO-DIMM2 socket

Note: This products supports Windows 10 x64 only.

Attached to this article you will also find an assembly guide and product information manual.

Note: Some documentation may refer to NUC8i3BEB, this is the model name for the motherboard which is integrated into the NUC8i3BEH NUC kit product.

Applies to:

- INTNUC-10027 - Intel NUC8i3BEH

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