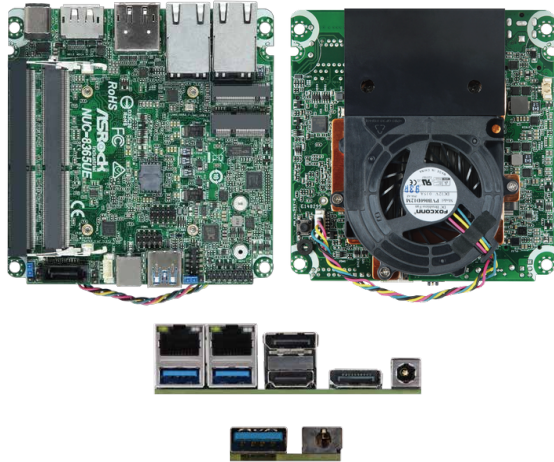




## NUC-8665UE/8365UE/8145UE

### NUC Motherboard



#### KEY FEATURES

- Intel® 8<sup>th</sup> Gen (Whiskey lake-U) Core™ Processors
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2400 MHz (16GB per DIMM)
- 3 x USB 3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Realtek 1 Gigabit LAN
- Supports triple display, 1 x HDMI 1.4, 2 x DP 1.2a
- TPM 2.0 onboard IC
- Supports Intel® vPro/AMT(NUC-8365UE / NUC-8665UE), RAID 0/1
- 12V DC-In

#### SPECIFICATIONS

##### Form Factor

Dimensions	NUC (4.09-in x 4.02-in)
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##### Processor System

CPU	Intel® 8 <sup>th</sup> Gen (Whiskey lake-U) Core™ Processors NUC-8145UE (I3-8145UE DC, 2.2GHz, 15 W) NUC-8365UE (I5-8365UE QC, 1.6GHz, 15 W) NUC-8665UE (I7-8665UE QC, 1.8GHz, 15 W)
Chipset	MCP
Socket	N/A
BIOS	AMI SPI 128 Mbit

##### Memory

Technology	Dual Channel DDR4 2400 MHz
Capacity	32 GB (16 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

##### Graphics

Controller	Intel® Gen9 Graphics DX 12
HDMI	HDMI 1.4 Max resolution up to 4096x2160@24Hz
DisplayPort	DisplayPort 1.2a Max resolution up to 4096x2160@60Hz
VGA	N/A
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

##### Expansion Slot

PCIe	N/A
PCI	N/A
mini-PCIe	N/A
M.2	1 x Key E (2230)with PCIe x1, and USB 2.0 for Wireless
SIM Socket	N/A

##### Audio

Interface	Realtek ALC233, High Definition Audio. Line-out, Mic-in
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##### Ethernet

Controller/ Speed	NUC-8365UE / NUC-8665UE: LAN1: Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro LAN2: Realtek RTL8111G/RTL8111H-CG with 10/100/1000 Mbps NUC-8145UE: LAN1: Intel® I219V with 10/100/1000 Mbps LAN2: Realtek RTL8111G/RTL8111H-CG with 10/100/1000 Mbps
Connector	2 x RJ-45

##### Front I/O

HDMI	N/A
DisplayPort	N/A
USB	1 x USB 3.2 (Gen2)
Audio	1 (Mic-in or Line-out)

##### Rear I/O

HDMI	1 x HDMI 1.4
DisplayPort	2 x DP 1.2a
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	2 x USB 3.2 (Gen2)
Audio	N/A
COM	N/A
PS2	N/A

##### Internal Connector

USB	2 x USB 2.0 (1 x 2.00 pitch header)
COM	1 x COM (RS232/422/485)
Parallel	N/A
GPIO	N/A
TPM	TPM 2.0 onboard IC
LVDS	N/A
eDP	N/A
VGA	N/A
SATA PWR Output	1
Speaker Header	RAID N/A

##### Storage

M.2	1 x Key M (2242/2260)with PCIe4 and SATA3 for SSD *M.2 Key M 2280 (optional support)
mSATA	N/A
SATA	1 x SATA3 (6Gb/s)
RAID	Intel® SATA RAID 0/1
eMMC	N/A

##### Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

##### Power Requirements

Input PWR	12V DC-In (DC Jack)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

##### Environment

Operating Temp	0°C - 60°C
Storage Temp	-40°C - 85°C
Operating Humidity	5% - 90%
Storage Humidity	5% - 90%

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

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Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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