

# ASRock Industrial NUC-1145G7E 11th Gen Intel Core I5-1145G7E NUC Motherboard

## Key Features:

- Intel 11th Gen (Tiger Lake-UP3) Core Processors I5-1145G7E
- 2 x 260-pin SO-DIMM DDR4 3200 MHz, up to 64GB
- 6 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 Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0a, 3 x DP 1.4 (2 from Type-C)
- TPM 2.0 onboard IC
- Supports Intel vPro, AMT
- 12V~19V DC-In

## Description

The ASRock Industrial NUC-1145G7E is an Industrial NUC Motherboard powered by 11th Gen Intel Core I5-1145G7E processor supporting up to 4 Cores. The NUC-1145G7E contains dual channel DDR4 providing up to 64GB memory, alongside rich I/O including 8x USB, 1x COM and 2x LAN ports.



## NUC 1100 Motherboard Series

NUC Motherboard



### KEY FEATURES

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- 6 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 Intel 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0a, 3 x DP 1.4 (2 from Type-C)
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT (NUC-1185G7E/NUC-1145G7E)
- 12V~19V DC-In

### SPECIFICATIONS

#### Form Factor

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

CPU	Intel® 11th Gen (Tiger Lake-UP3) Core™ Processors NUC-1165G7 (I7-1165G7, QC, Max Speed up to 4.7GHz) NUC-1135G7 (I5-1135G7, QC, Max Speed up to 4.2GHz) NUC-1115G4 (I3-1115G4, DC, Max Speed up to 4.1GHz) NUC-1185G7E (I7-1185G7E QC, Max Speed up to 4.4GHz) NUC-1145G7E (I5-1145G7E QC, Max Speed up to 4.1GHz) NUC-1115G4E (I3-1115G4E DC, Max Speed up to 3.9GHz) NUC-6305E (Celeron 6305E, DC, 1.8GHz)
Chipset	MCP
BIOS	AMI SPI 256 Mbit

#### Memory

Technology	Dual Channel DDR4 3200 MHz
Capacity	64GB (32 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

#### Graphics

Controller	Intel® Iris® Xe Graphics for i7/i5 CPU Intel® UHD Graphics for i3/Celeron CPU
HDMI	HDMI 2.0a Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.4, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Max 4 display (Included 2 outputs from Type-C)

#### Expansion Slot

M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless
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#### Audio

Interface	Realtek ALC233, High Definition Audio.
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#### Ethernet

Controller/ Speed	NUC-1185G7E/NUC-1145G7E: LAN1: Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro LAN2: Intel® I225LM with 10/100/1000/2500 Mbps NUC-1165G7/NUC-1135G7/NUC-1115G4/NUC-1115G4E/NUC-6305E: LAN1: Intel® I219V with 10/100/1000 Mbps LAN2: Intel® I225LM with 10/100/1000/2500 Mbps
Connector	2 x RJ-45

#### Front I/O

USB	2 x USB 3.2 Gen2 (Type-A) 2 x USB 3.2 Gen2 (Type-C, Supports DP1.4 display output) * USB4™ Compliance Test is pending for certification
Audio	1 (headphone & microphone jack)

#### Rear I/O

HDMI	1 x HDMI 2.0a
DisplayPort	1 x DP1.4
Ethernet	1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2 (Type A)
DC Jack	1

#### Internal Connector

USB	2 x USB 2.0 (1 x 2.00 pitch header)
COM	1 x COM(RS-232)
TPM	TPM 2.0 onboard IC

#### Storage

M.2	1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD *M.2 Key M 2280(Supported by bracket)
SATA	1 x SATA3.0 (6.0 Gb/s)

#### Watchdog Timer

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

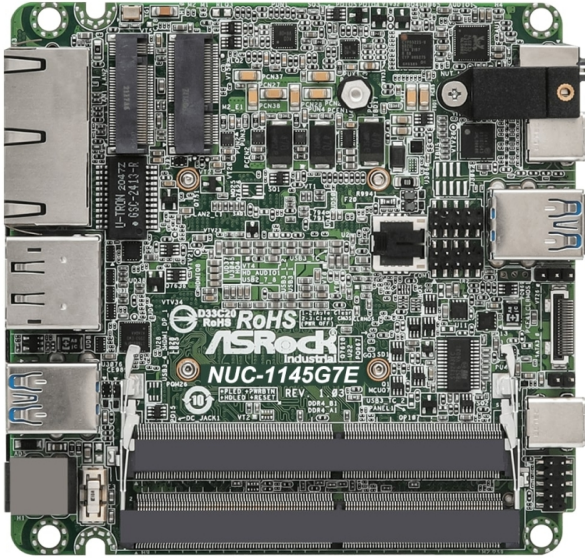
#### Power Requirements

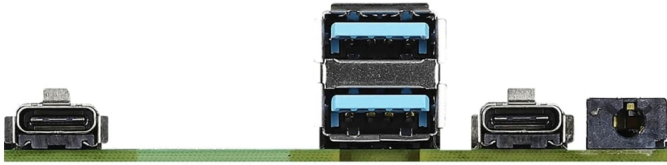
Input PWR	12V~19V DC-In Jack
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

#### Environment

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

## Images





## Assured Systems

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