



MU10 – Intel Tiger Lake® NUC Motherboard

This long-life Embedded Industrial Motherboard has a planned lifecycle through Q3'2035. This small form factor board comes with a Core i5-1145G7E mounted on the bottom of the board, making for easy integration into fanless systems. 2x HDMI , 2x LAN including 1x 2.5GbE, and multiple M.2 for Wifi/BT, Storage or other expansion make this little board quite the powerhouse and perfect for Industrial Automation, Medical or Biotech applications and just about anything else.

SPECIFICATIONS

CPU	Intel i5-1145G7E Quad-core CPU 15W TDP
Memory Type	DDR4-3200 SO-DIMM
Memory Slots	2
Maximum Memory Supported	64GB
Watchdog Timer	Generates a system reset with internal timer for 1 min/s ~ 255 min/s
GPIO Interface	Onboard programmable 8-bit Digital I/O interface
Integrated Graphics	Intel® HD Graphics
TPM	2.0 (Optional)
Video	2 x HDMI
LAN Ports	1 x Intel I225-V PCIe 2.5GbE, 1 x Intel I219-LM PHY Gigabit LAN (iAMT 12.0)
Serial ATA (SATA)	1 x SATA3 (6Gbps)
Extended Interface	1 x M.2 M-Key (2242/2280, PCIe 4.0 x4 NVMe), 1 x M.2 E-key (2230, USB and PCIe CNVi WiFi), 1 x M.2 B-key (3042/3052, USB and PCIe for 5G LTE)
Rear I/O	2 x USB 3.2 Gen2 Type-C (DP 4K@60Hz) , 2 x HDMI 4K@60Hz , 2 x RJ-45 ports, 1 x 12V-24V DC-in jack (1-pin 2.5mm ID / 5.5mm OD)
Front I/O	1 x USB 3.2 Gen2 Type-C (USB only) , 2 x USB 3.2 Gen2 Type-A, 1 x Line out/Mic combo jack
Internal I/O	1 x USB header for 2 USB 2.0 ports, 1 x Serial header (RS232), 1 x AT/ATX Power switch mode, 1 x 8bit GPIO, 1 x SMBUS header
Audio	Realtek HD Audio
Power Requirement	DC input 12~24V
Dimensions	101mm x 101mm
Operating Temperature	0 ~ 60C (32 ~ 140F)
Storage Temperature	-20 ~ 85 °C (-4 ~ 185 °F)
Relative Humidity	10% to 90% (non condensing)

OS Software Supported

Windows 10 64-bit, Windows 10 IoT, Windows 11 64-bit, Windows 11 IoT

Global P/N / SKU

2809167

Ordering Options

2809167A - MU10-20 without TPM 2.0 2809167B - MU10-22 with TPM 2.0 NOTES: A minimum of 90 Watt power adapter is recommended L-type SATA cable, SATA power cable and COM cable are included

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