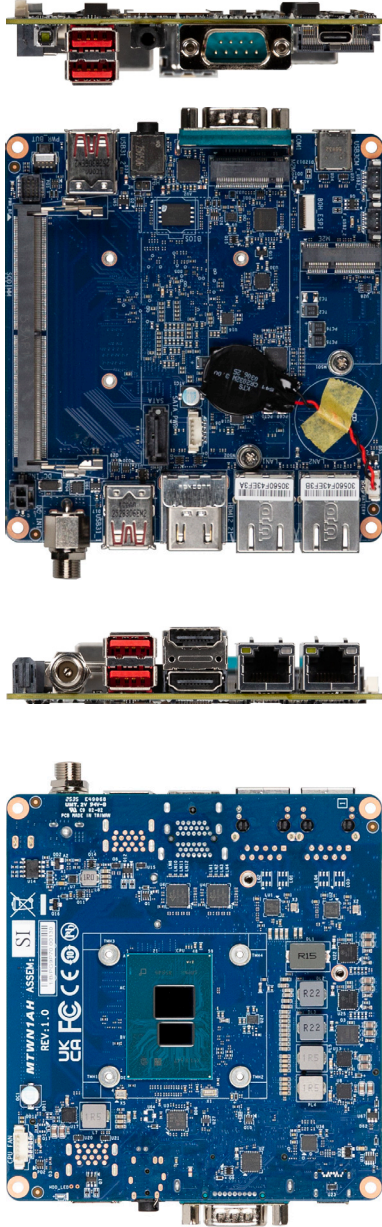


QBi-N150A (MTWN1AH)

Embedded Compact Board with Intel® Processor N150, Single Channel DDR5 memory, 1 x COM, 1 x SATA 6Gb/s, 6 x USB, TPM on board



Features

- Embedded IPC Motherboard
- Intel® Processor N150
- Single Channel DDR5, 1 x SO-DIMM
- 2 x GbE LAN Ports
- 1 x SATA 6Gb/s Port
- 2 x HDMI, 1 x DP 1.4 through USB type C for multiple display
- 1 x COM Port (RS-232)
- Onboard TPM v2.0

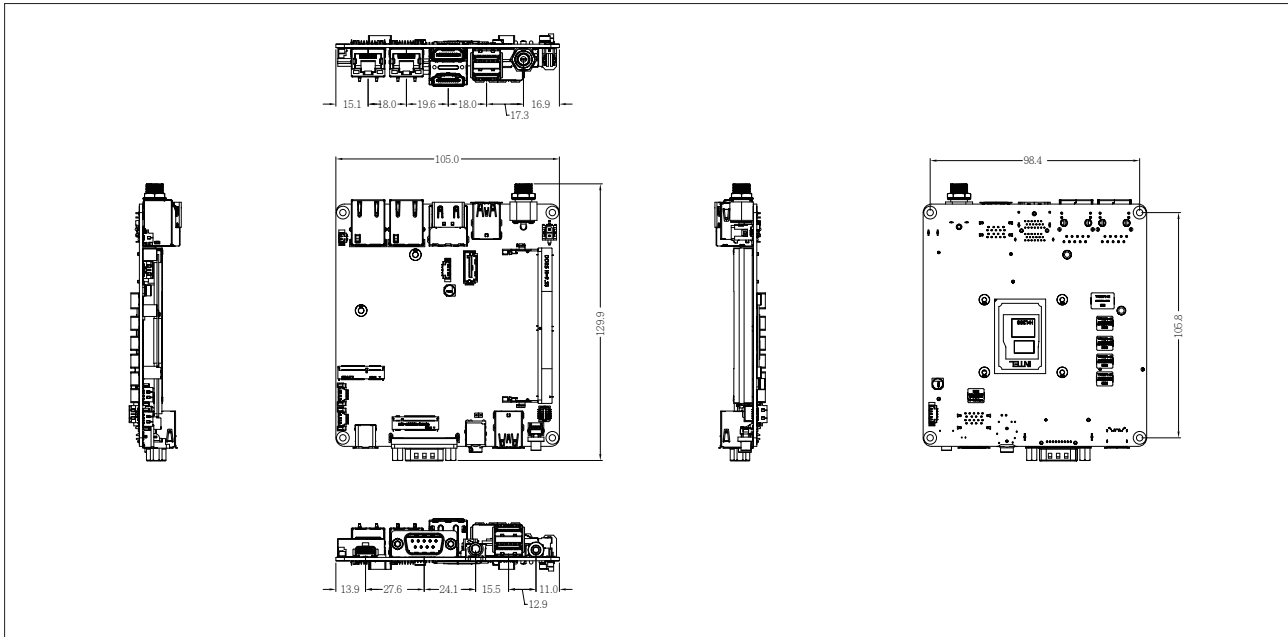
Video	Integrated Graphics Processor - Intel® Graphics support: 2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x DP 1.4 through USB Type C (DP Alt.mode), supporting a maximum resolution of 4096x2160 @60Hz (3 independent display outputs)
Audio	Realtek® ALC269
Storage	1 x SATA 6Gb/s Port
Raid	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 3x1, SATA 6Gb/s) 1 x 2230 M.2 E-Key
Internal I/O	1 x 2-pin power connector 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 2 x USB 2.0 headers
Front IO	2 x USB 3.2 Gen 2x1 1 x Power button with LED 1 x COM Port (RS-232) 1 x Combo audio jack (Headphone & Headset) 1 x USB 3.2 Type C with DP 1.4b (DP Alt. mode)
Rear IO	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x HDMI 1 x Screw type DC Jack (+12V~19VDC)
Side IO	—
TPM	Onboard TPM 2.0 security chip NUVOTON NPCT760AABYX
OS Compatibility	Windows 11 (x64) Ubuntu 24.04.2 LTS (No certification)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 60% @ 20-95% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 85% @ 95% (non-condensing)
Packing Content	Carton size: 465 x 351 x 217 (mm) Packing Capacity: 10pcs Single Box size: 221 x 178 x 65 (mm) Including: SATA power cable 150mm x 1 (P/N: 25CRI-150621-K1R)
Order Information	9MTWN1AHMR-SI (Box Packing)

Specifications

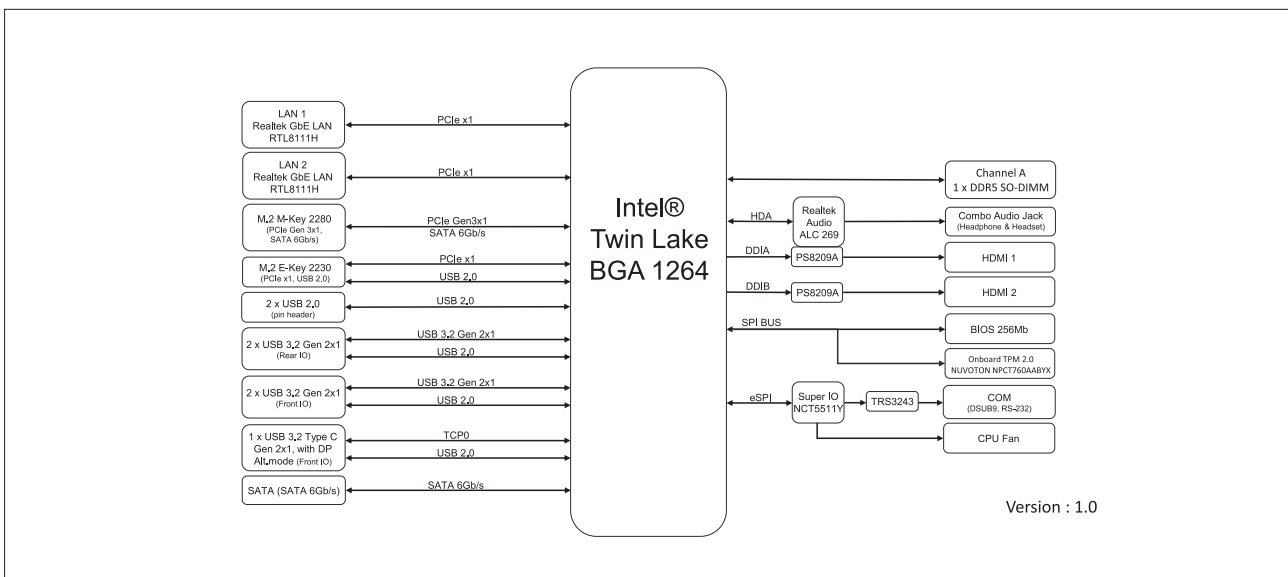
Form Factor	Embedded Compact Board 105W x 110D (mm)
CPU	Intel® Processor N150 Intel 7, 4 cores, up to 3.60 GHz TDP 6W
Socket	1 x FCBGA1264
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz memory module
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)

GIGAIPC reserves the right to modify or change technical data without prior notice.

Dimension (Unit: mm)



Block Diagram



Optional Kit

Part No.	Description	Quantity
25ST1-1231Z9-A7R	Fanless Heatsink	1
25ST4-123104-A7R	Fansink	1
25ST1-113109-Y0R	Heat spreader	1

2025/12/02

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