

mITX-N150C (MTWN1CI)

Mini-ITX Embedded Motherboard with Intel® Processor N150, Single Channel DDR5 memory, CcTalk header, 3 x DP, 3 x COM



Features

- Mini-ITX form factor
- Intel® Processor N150
- Single Channel DDR5, 1 x SO-DIMM
- 1 x GbE LAN Port
- 1 x CcTalk header & 1 x CcTalk power header
- 3 x DP1.4
- Onboard TPM v2.0

Specifications

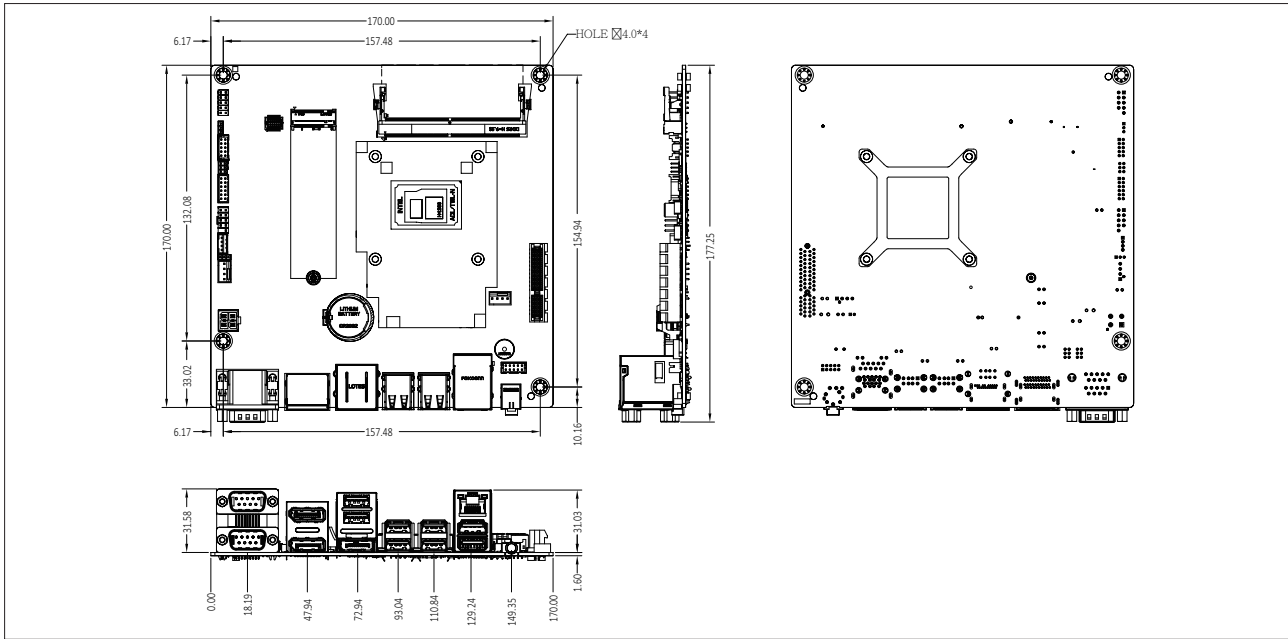
Form Factor	Mini-ITX 170W x 170D (mm)
CPU	Intel® Processor N150 Intel 7, 4 cores, up to 3.60 GHz TDP 6W
Socket	1 x FCBGA1264
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz memory module
Ethernet	1 x GbE LAN Port (Realtek® RTL8111H)
Video	Integrated Graphics Processor - Intel® Graphics support: 3 x DP port, supporting a maximum resolution of 4096x2160 @60Hz (3 independent display outputs)
Audio	Realtek® ALC897
Expansion Slots	1 x PCIe x4 (Gen3 x4) 1 x 2280 M.2 M-Key (PCIe Gen 3x2)

Internal I/O	1 x 4-pin ATX 12V power connector (12V) 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x ccTalk header 1 x ccTalk power jumper 1 x Buzzer 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) & SMBus header 1 x AT/ATX mode select jumper
Rear I/O	1 x Audio Jack (Line out) 2 x COM Ports (RS-232, with 12V only) 3 x Display Ports 1 x RJ45 LAN Port 2 x USB 3.2 Gen 2 (10 Gbps) 6 x USB 2.0
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0
OS Compatibility	Windows 11 Enterprise LTSC 2024 Windows 11 IoT Enterprise LTSC 2024, x64 Windows 11 IoT Enterprise, version 24H2 x64
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 60°C @ 20-95% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 85°C @ 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: IO Shield x 1 (P/N: 12AIO-MTWN1C-00R)
Order Information	9MTWN1CIMR-SI (Box packing)

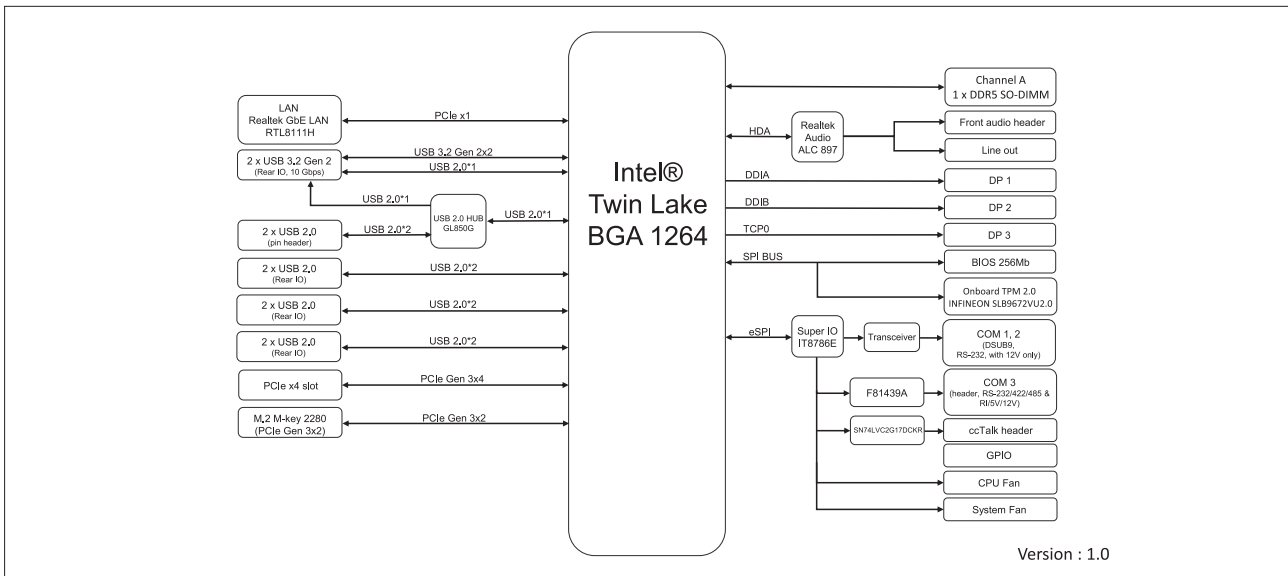
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Dimension (Unit: mm)

2026/09/08



Block Diagram



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