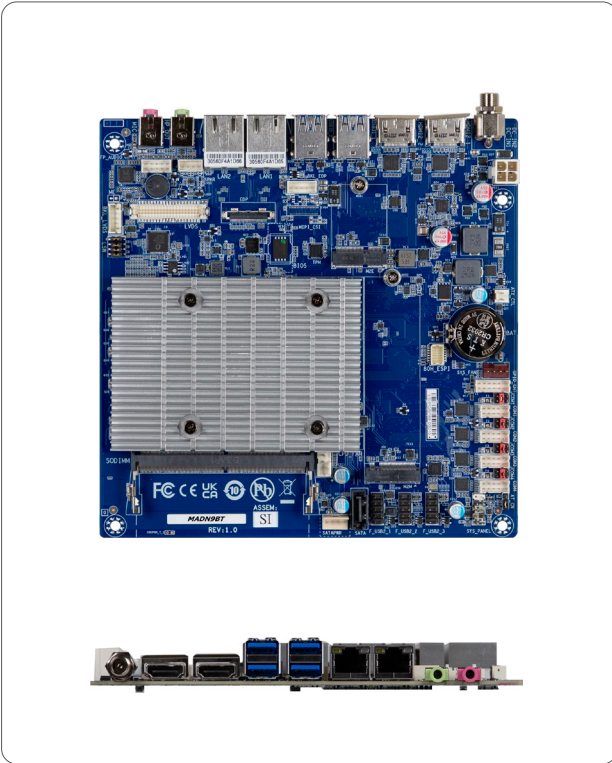


iTXL-N97B (MADN9BT-SI)

Thin Mini-ITX Embedded Motherboard with Intel® Processor N97, Single Channel DDR5 memory, 4 x COM, 1 x SATA 6Gb/s, 10 x USB



Features

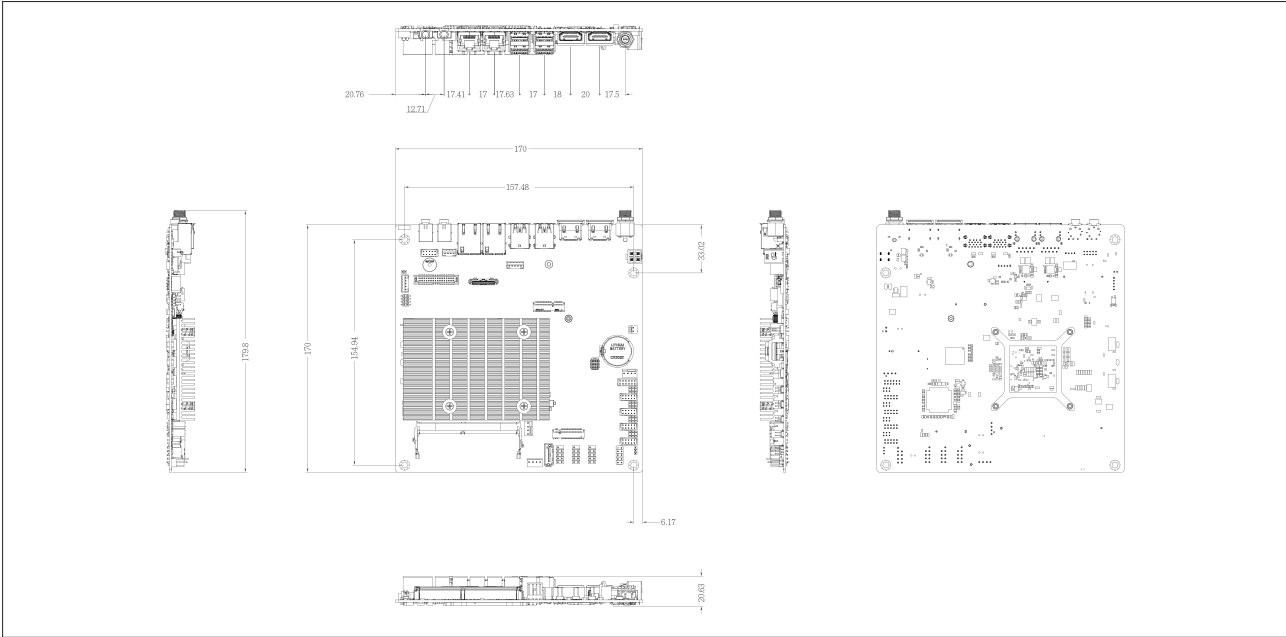
- Thin Mini-ITX form factor
- Intel® Processors N97
- Single Channel DDR5, 1 x SO-DIMM
- 2 x GbE LAN Ports
- 1 x SATA 6Gb/s Port
- HDMI, eDP, LVDS ports for Multiple Display
- 4 x COM Ports (RS-232/422/485 & RI/5V/12V)

Specifications

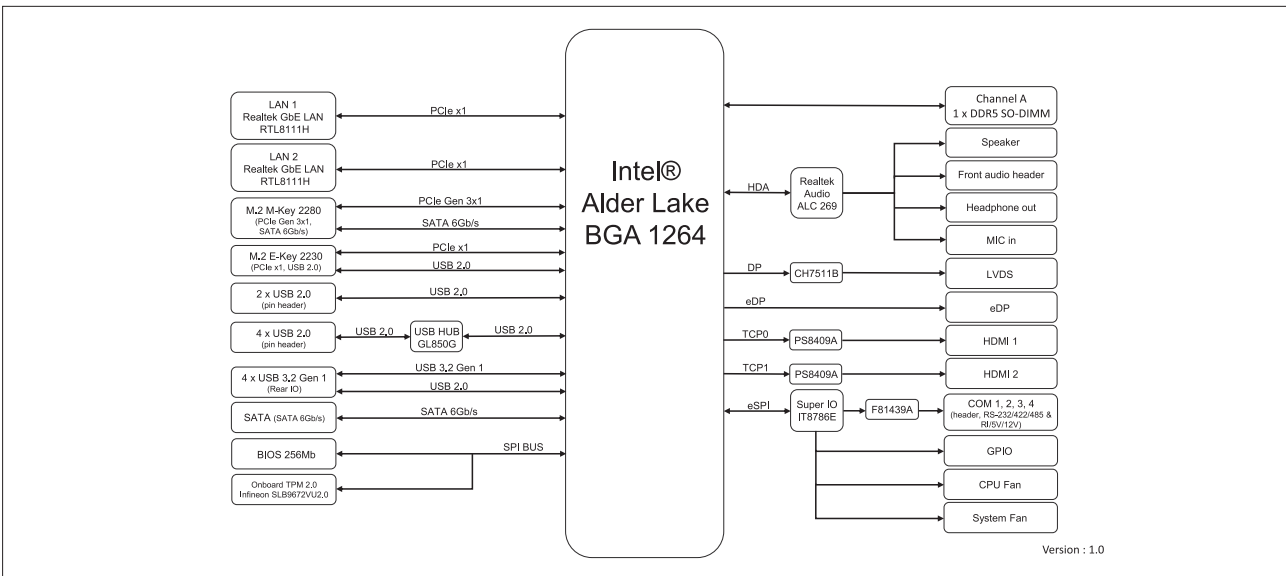
| | |
|-----------------|--|
| Form Factor | Thin Mini-ITX 170W x 170D (mm) |
| CPU | Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz TDP 12W |
| Socket | 1 x FCBGA1264 |
| Memory | 1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single channel DDR5 4800 MHz memory modules |
| Ethernet | 2 x GbE LAN Ports (Realtek® RTL8111H) |
| Video | Integrated Graphics Processor - Intel® UHD Graphics support: 2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x eDP port, supporting a maximum resolution of 3840x2160 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz (3 independent display outputs) |
| Audio | Realtek® ALC269 |
| Storage | 1 x SATA 6Gb/s Port |
| 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 4-pin ATX main power connector 1 x SATA Power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 4 x COM headers (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header for eDP 1 x Backlight Control header for LVDS 1 x AT/ATX mode select jumper 1 x ATX control header |
| Rear I/O | 2 x Audio Jacks (Headphone out, Mic in) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V~24VDC) |
| TPM | Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0 |
| OS Compatibility | Windows 11 IoT Enterprise LTSC 2024(24H2) 64bits Windows 10 IoT Enterprise LTSC 2021(21H2) 64bits |
| 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: Standard IO Shield x 1 (P/N: 12AIO-MEHLJA-00R) Low-Profile IO Shield x 1 (P/N: 12AIO-MJPLNO-00R) SATA Power Cable x 1 (P/N: 25CRI-200B02-K1R) |
| Order Information | 9MADN9BTMR-SI (Box Packing) |

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



Block Diagram



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