

# iTXL-6100B (MKLP3CI)

Thin Mini-ITX Embedded Motherboard with Intel® Core™ i3-6100U Processor, Dual Channel DDR4 memory, 4 x COM, 2 x SATA 6Gb/s, 8 x USB



## Features

- Thin Mini-ITX form factor
- Intel® Core™ i3-6100U Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN ports
- 2 x SATA 6Gb/s ports
- HDMI, Display Port, LVDS or eDP ports for multiple display
- 2 x RS232/422/485/5V/12V/RI COM ports
- 2 x RS232 COM ports

## Specifications

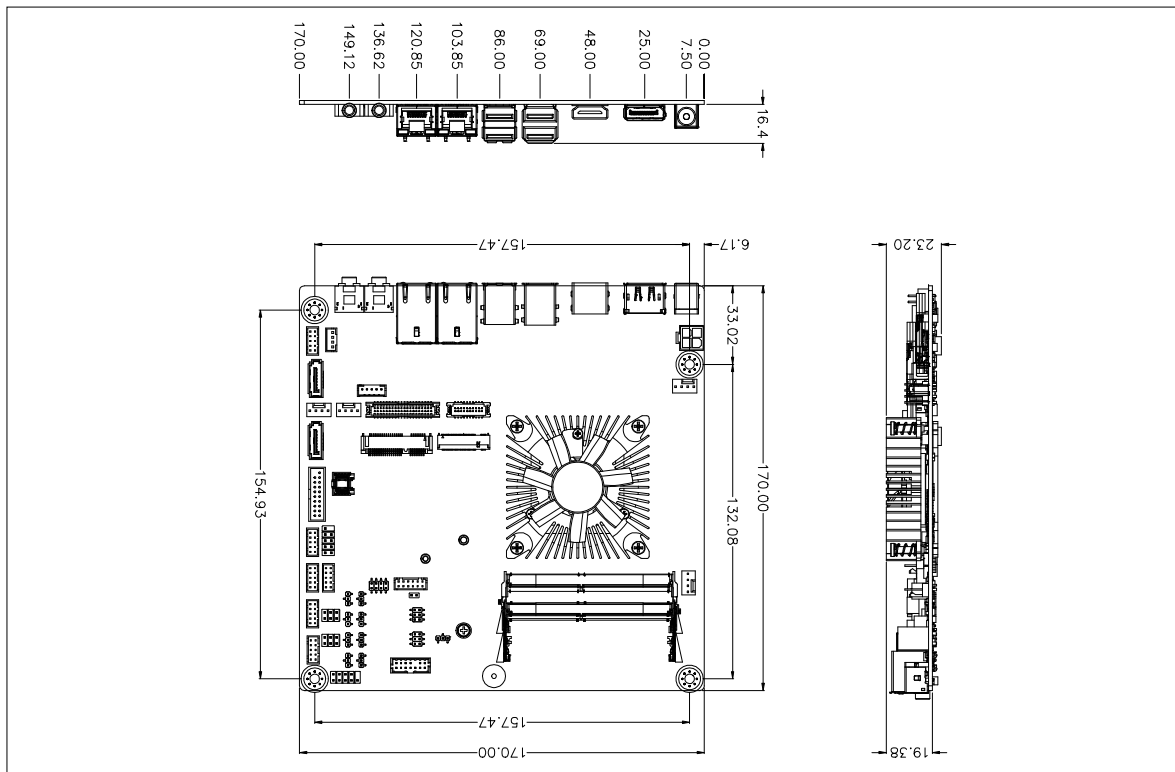
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|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor     | Thin Mini-ITX<br>170W x 170D (mm)                                                                                                                                                                                                                                                                                                                                                   |
| CPU             | Intel® Core™ i3-6100U Processor<br>14nm, 2 cores, 2 threads, 2.30 GHz<br>TDP 15W                                                                                                                                                                                                                                                                                                    |
| Socket          | 1 x FCBGA1356                                                                                                                                                                                                                                                                                                                                                                       |
| Chipset         | —                                                                                                                                                                                                                                                                                                                                                                                   |
| Memory          | 2 x DDR4 SO-DIMM sockets, Max. Capacity 32GB<br>Support Dual channel DDR4 2133 MHz memory modules                                                                                                                                                                                                                                                                                   |
| Ethernet        | 2 x GbE LAN ports (Intel® i219V and Intel® i211AT)                                                                                                                                                                                                                                                                                                                                  |
| Video           | Integrated Graphics Processor - Intel® HD Graphics 520:<br>1 x HDMI 1.4 port, supporting a maximum resolution of 4096x2160 @24Hz<br>1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz<br>1 x LVDS port, supporting a maximum resolution of 1920x1080 @60Hz<br>1 x eDP port, supporting a maximum resolution of 1920x1080 @60Hz<br><br>(3 independent display outputs) |
| Audio           | Realtek® Audio Codec                                                                                                                                                                                                                                                                                                                                                                |
| Storage         | 2 x SATA 6Gb/s ports<br>(incl. 1 x SATA supports SATA DOM)                                                                                                                                                                                                                                                                                                                          |
| Raid            | RAID 0/1/5                                                                                                                                                                                                                                                                                                                                                                          |
| Expansion Slots | 1 x 2280/2242 M.2 M-Key (PCIe x2, SATA 6Gb/s)<br>1 x Full-size Mini PCIe                                                                                                                                                                                                                                                                                                            |

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Internal I/O         | 1 x 4-pin ATX main power connector<br>2 x SATA Power connectors<br>1 x CPU fan header<br>1 x System fan header<br>1 x Front panel header<br>1 x Front panel audio header<br>1 x 2W Speaker out header<br>2 x USB 2.0 headers<br>2 x USB 3.0 headers<br>2 x COM Headers (RS-232)<br>2 x COM headers (RS-232/422/485 and RI/5V/12V)<br>1 x LCD_VCC Pin header<br>1 x Backlight Control header<br>1 x GPIO (8 bits) & SMBUS header<br>1 x Buzzer |
| Rear I/O             | 2 x Audio jacks (Line out, Mic in)<br>1 x HDMI<br>1 x Display Port<br>2 x RJ45 LAN ports<br>2 x USB 2.0<br>2 x USB 3.0<br>1 x DC Jack (+12Vdc)                                                                                                                                                                                                                                                                                                |
| TPM                  | 1 x TPM header                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OS Compatibility     | Windows 10 (x64)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating Properties | Operating temperature: 0°C to 60°C<br>Operating humidity: 0-90% (non-condensing)<br>Non-operating temperature: -40°C to 85°C<br>Non-operating humidity: 0%-95% (non-condensing)                                                                                                                                                                                                                                                               |

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

## Dimension

Unit: mm



## Packing List

- BOX Packing Capacity: 10pcs
- Carton size: 465 x 351 x 217 (mm)
- Content:
  - IO Shield x 1 (P/N: 12AIO-MKLPC0-00R)
  - SCREW FLAT HEAD M2\*2.5 x 1 (P/N: 12KS2-110202-01R)
  - SATA Power cable x 1 (P/N: 25CRI-200B02-K1R)

## Order Information

- Motherboard: 9MKLP3CIMR-SI

## Optional Kit

- TPM 2.0 module: 9CTM000NR-00

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