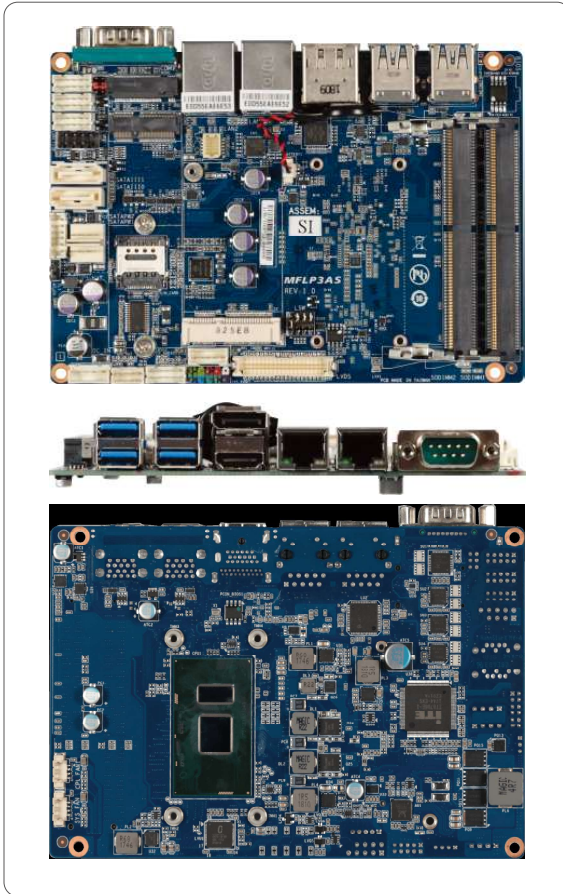


# QBIP-7100AT (MFLP3AS)

3.5" SubCompact Wide Temperature Board with 7th Generation Intel® Core™ i3-7100U Processor, Dual Channel DDR4 memory, 4 x COM, 2 x SATA 6Gb/s, 6 x USB, Temp -20°C to 70°C



## Features

- 3.5" SBC
- Intel® Core™ i3-7100U Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- Intel® Optane™ Memory Ready
- 2 x GbE LAN ports
- 2 x SATA 6Gb/s ports
- Ultra-Fast M.2 with PCIe Gen3 x4 interface
- HDMI2.0, Display Port, LVDS ports for multiple display
- 1 x RS232/422/485/5V/12V/RI COM port
- 3 x RS232 COM ports
- Wide Temperature Embedded Motherboard

|                      |  |
|----------------------|--|
| Audio                | Realtek® Audio Codec   |
| Storage              | 2 x SATA 6Gb/s ports   |
| Raid                 | Intel® SATA RAID 0/1/5   |
| Expansion Slots      | 1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s)<br>1 x 2230 M.2 E-Key<br>1 x Full-size Mini PCIe with SIM slot (PCIe x1 + USB2.0) -- support 3G/4G module   |
| Internal I/O         | 1 x 4 pin box power connector (+9V~36VDC Full Range)<br>2 x SATA Power headers<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>3 x COM headers (RS-232)<br>1 x Backlight control header<br>1 x AT/ATX mode select jumper<br>1 x GPIO (8-bits) & SMBUS header |
| Rear I/O             | 1 x COM port (RS232/422/485 and RI/5V/12V)<br>1 x HDMI<br>1 x Display Port<br>2 x RJ45 LAN ports<br>4 x USB 3.0  |
| TPM                  | 1 x TPM Header   |
| OS Compatibility     | Windows 10 (x64)   |
| Operating Properties | Operating temperature: -20°C to 70°C<br>Operating humidity: 0-90% (non-condensing)<br>Non-operating temperature: -20°C to 70°C<br>Non-operating humidity: 0%-95% (non-condensing)  |

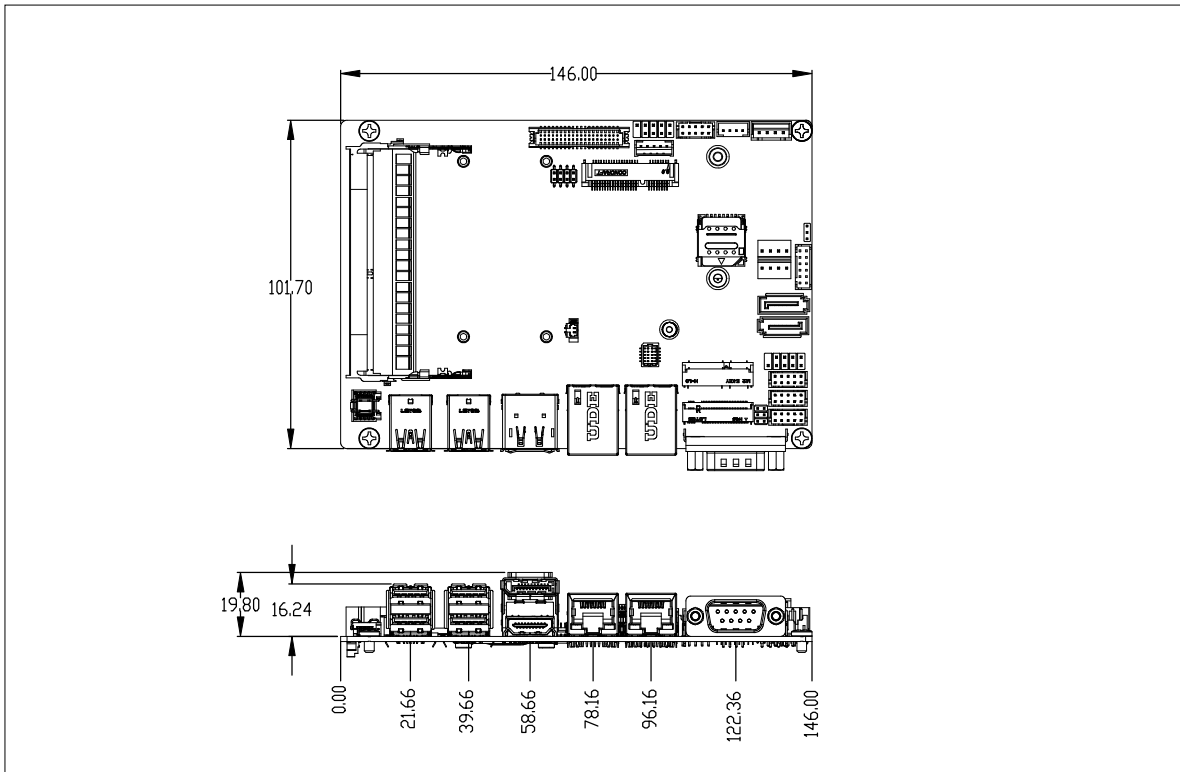
## Specifications

|             |  |
|-------------|--|
| Form Factor | 3.5" SBC<br>146W x 101.7Dmm  |
| CPU         | Intel® Core™ i3-7100U Processor<br>14nm, 2 cores, 4 threads, 2.4 GHz<br>TDP 15W<br>3 MB SmartCache   |
| Socket      | 1 x FCBGA1356  |
| Chipset     | —  |
| Memory      | 2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB<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 620 support<br>1 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz<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><br>(3 independent display outputs) |

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

## Dimension

Unit: mm



## Packing Content

- Box Packing Capacity: 10pcs
- Carton size: 375 x 324 x 293(mm)
- Content:
  - SATA Power cable x 1 (P/N: 25CRI-200B02-K1R)
  - Fanless Heatsink x 1 (P/N: 25ST1-153108-A7R)

## Order Information

- Motherboard: 9MFLP3ASMR-S11

## Optional Kit

- TPM 2.0 module P/N: 9CTM000NR-00
- TPM Cable P/N: 25CRZ-100600-S9R

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