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 DISTEC

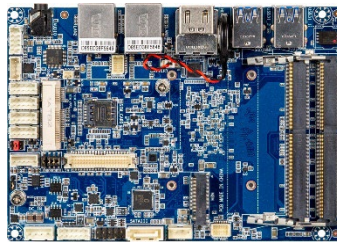


 DISPLAY  
TECHNOLOGY



# Datasheet

## GIGAIPC



### **QBiP-6210A**

**3.5" SubCompact SBC with Intel® Celeron® N6210 Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0**

### **QBiP-6412A**

**3.5" SubCompact SBC with Intel® Celeron® J6412 Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0**

### **QBiP-x6413EAT**

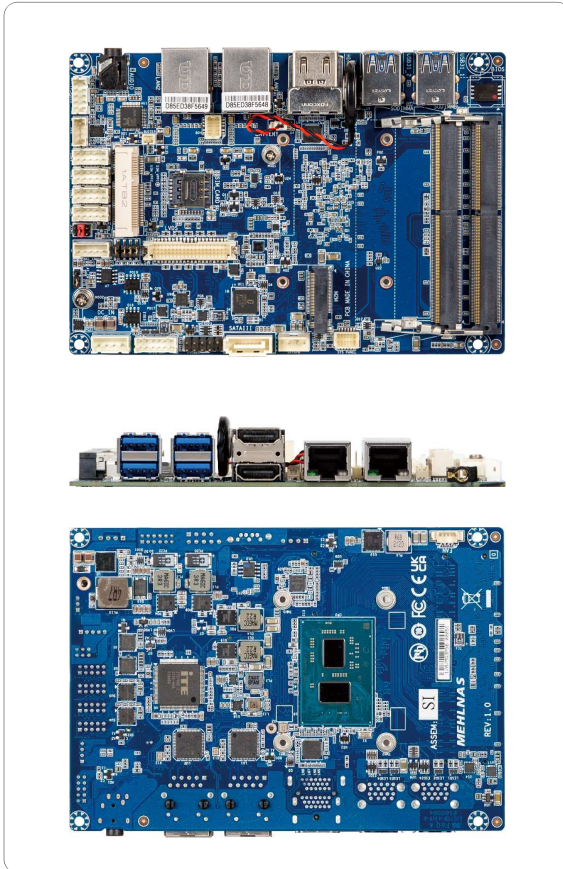
**3.5" SubCompact Wide Temperature SBC with Intel® Atom® x6413E Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0, Temp -40° C to 85°C**

### **QBiP-x6413EA**

**3.5" SubCompact SBC with Intel® Atom® x6413E Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0**

## QBIP-6210A

3.5" SubCompact Board with Intel® Celeron® N6210 Processor, Dual Channel DDR4 memory, 4 x COM , 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0



### Features

- 3.5" SBC
- Intel® Celeron® N6210 Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 1 x SATA 6Gb/s Port
- 2 x HDMI, LVDS ports for multiple display
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 1 x COM Port (RS-232/422/485)
- 2 x COM Ports (RS-232)
- 4 x USB 3.2 Gen 1

Storage	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x Full-size mini PCIe with SIM slot
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
OS Compatibility	Windows® 10 (x64)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 0%-95% (non-condensing)

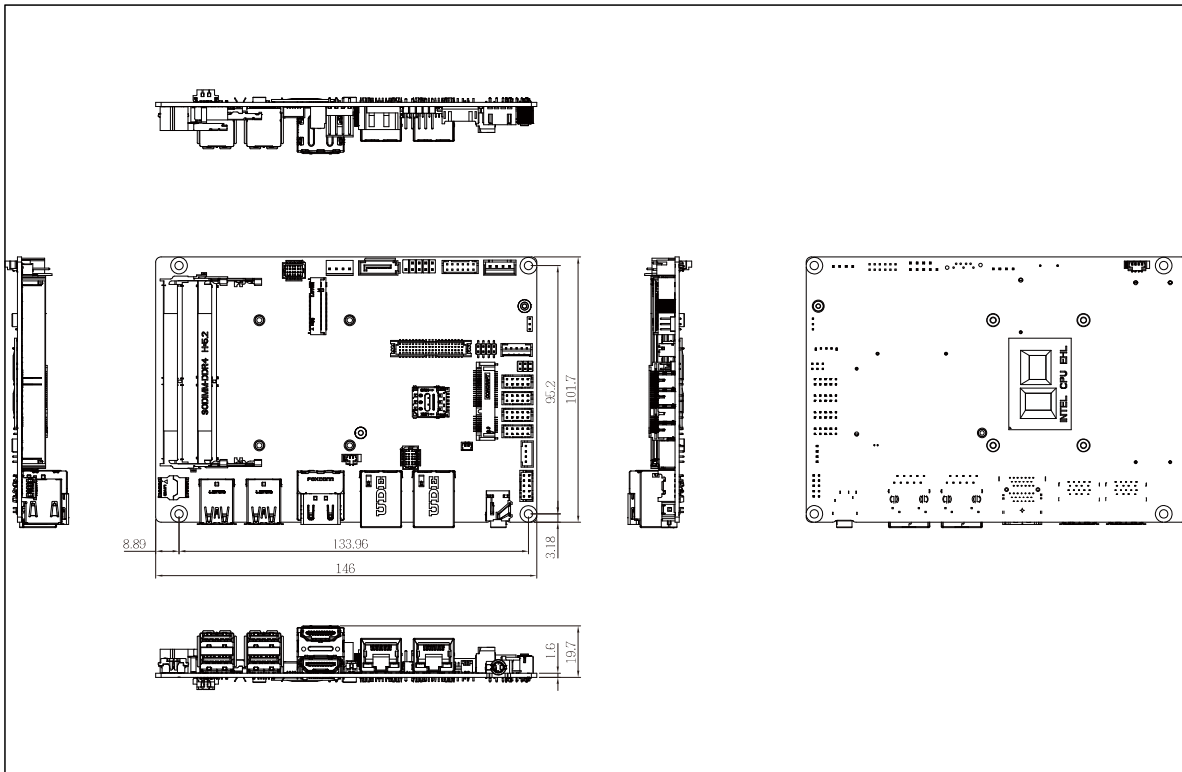
### Specifications

Form Factor	3.5" SBC 146W x 101.7Dmm
CPU	Intel® Celeron® N6210 Processor 10nm, 2 cores, 2 threads, up to 2.60 GHz TDP 6.5W
Socket	1 x FCBGA1493
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Support Dual Channel DDR4 3200MHz memory modules
Ethernet	2 x GbE LAN Ports (Intel® I211AT)
Video	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz  (3 independent display outputs)
Audio	Realtek® Audio codec

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## Dimension

Unit: mm



## Packing Content

- Carton size: 465 x 351 x 217 (mm)
- Packing Capacity: 10pcs
- Including:
  - SATA Power cable x 1 (P/N: 25CRI-200B02-K1R)

## Order Information

- Motherboard: 9MEHLNASMR-SI (Box packing)

## Optional Kit

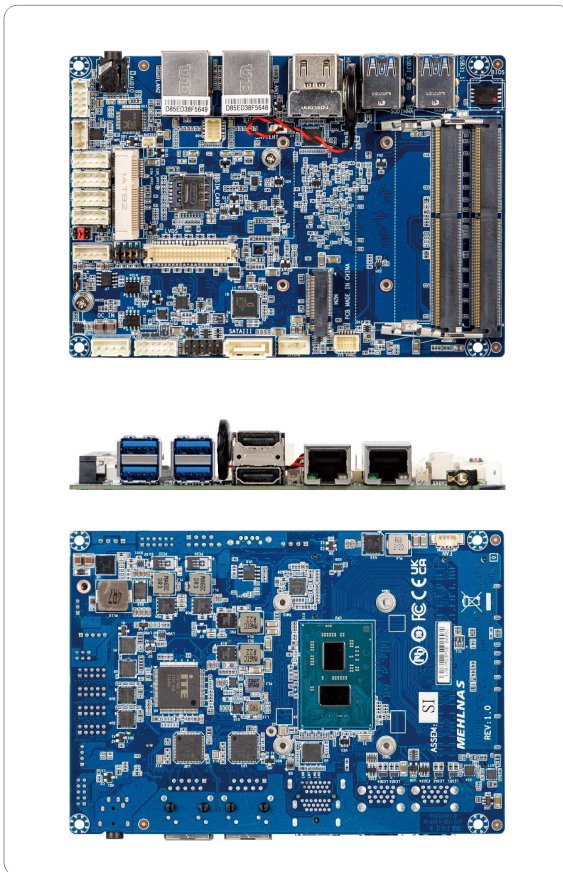
- Fanless Heatsink P/N: 25ST1-12311B-A7R
- Fansink P/N: 25ST4-1231Z0-A7R
- Heat spreader P/N: 25ST5-641200-Y0R

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# QBIP-6412A

3.5" SubCompact Board with Intel® Celeron® J6412 Processor, Dual Channel DDR4 memory, 4 x COM , 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0



## Features

- 3.5" SBC
- Intel® Celeron® J6412 Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 1 x SATA 6Gb/s Port
- 2 x HDMI, LVDS ports for multiple display
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 1 x COM Port (RS-232/422/485)
- 2 x COM Ports (RS-232)
- 4 x USB 3.2 Gen 1

## Specifications

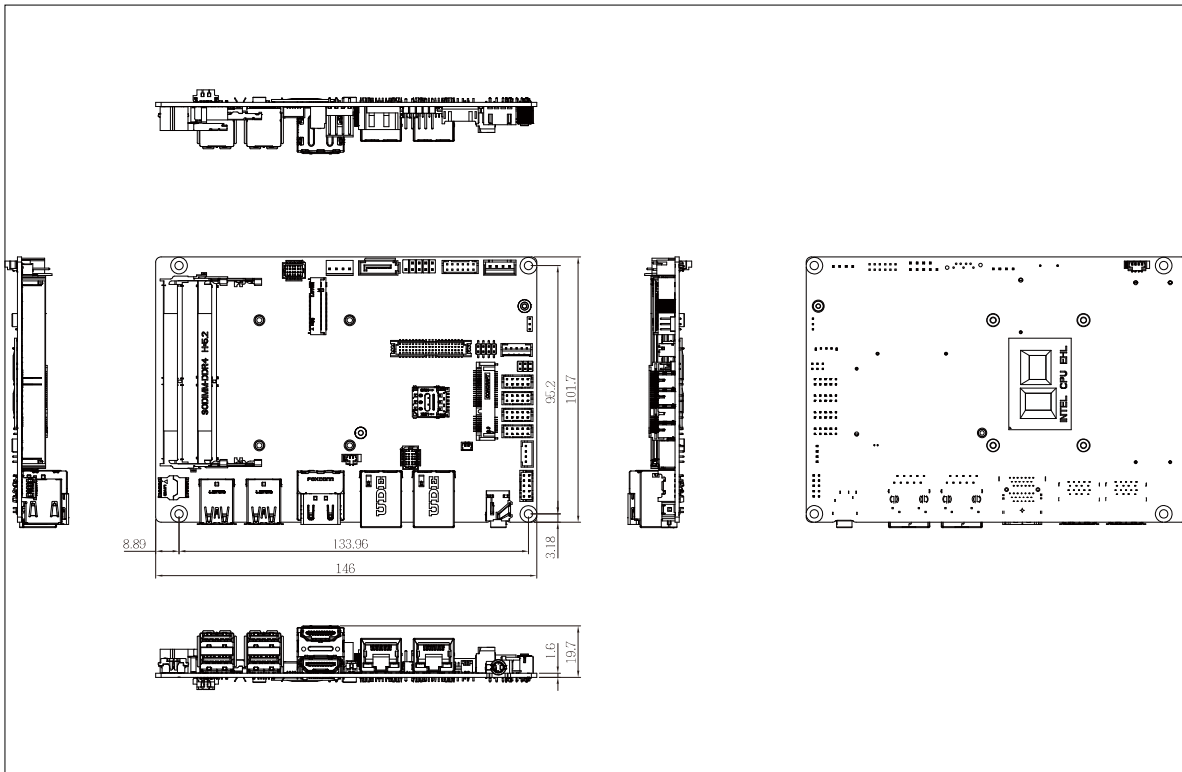
Form Factor	3.5" SBC 146W x 101.7Dmm
CPU	Intel® Celeron® J6412 Processor 10nm, 4 cores, 4 threads, up to 2.60 GHz TDP 10W
Socket	1 x FCBGA1493
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Support Dual Channel DDR4 3200MHz memory modules
Ethernet	2 x GbE LAN Ports (Intel® I211AT)
Video	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz  (3 independent display outputs)
Audio	Realtek® Audio codec

Storage	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x Full-size mini PCIe with SIM slot
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
OS Compatibility	Windows® 10 (x64)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 0%-95% (non-condensing)

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## Dimension

Unit: mm



## Packing Content

- Carton size: 465 x 351 x 217 (mm)
- Packing Capacity: 10pcs
- Including:
  - SATA Power cable x 1 (P/N: 25CRI-200B02-K1R)

## Order Information

- Motherboard: 9MEHLJASMR-SI (Box packing)

## Optional Kit

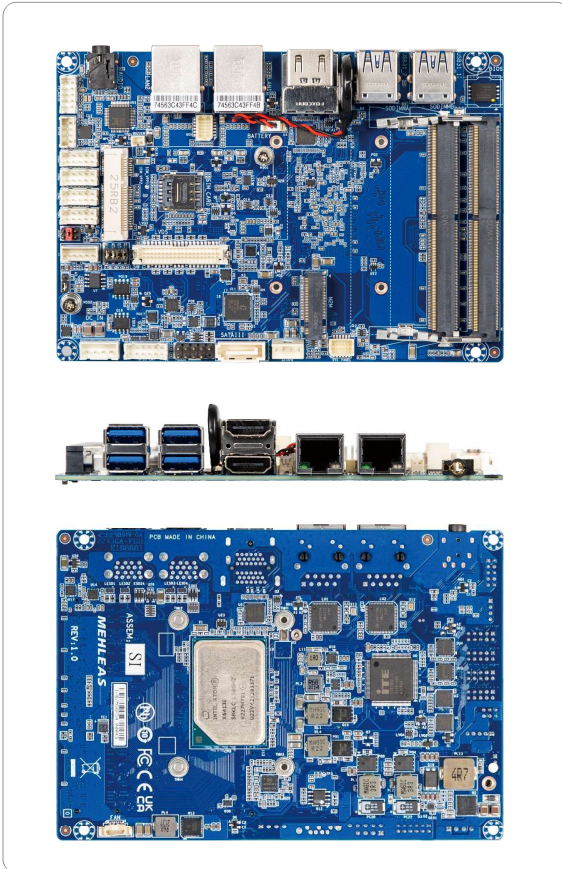
- Fanless Heatsink P/N: 25ST1-12311B-A7R
- Fansink P/N: 25ST4-1231Z0-A7R
- Heat spreader P/N: 25ST5-641200-Y0R

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## QBIP-x6413EAT (MEHLEAS)

3.5" SubCompact Wide Temperature Embedded Motherboard with Intel® Atom® x6413E Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0, Temp -40°C to 85°C



### Features

- 3.5" SBC
- Intel® Atom® x6413E
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 1 x SATA 6Gb/s Port
- M.2 with PCIe x2, SATA 6Gb/s
- 2 x HDMI, LVDS ports for multiple display
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 1 x COM Port (RS-232/422/485)
- 2 x COM Ports (RS-232)
- Wide Temperature Embedded Motherboard

Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x Full-size mini PCIe with SIM slot
Internal I/O	1 x 4-pin box power connector (DC in +9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
OS Compatibility	Windows 10 (x64)
Operating Properties	Operating temperature: -40°C to 85°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 0%-95% (non-condensing)

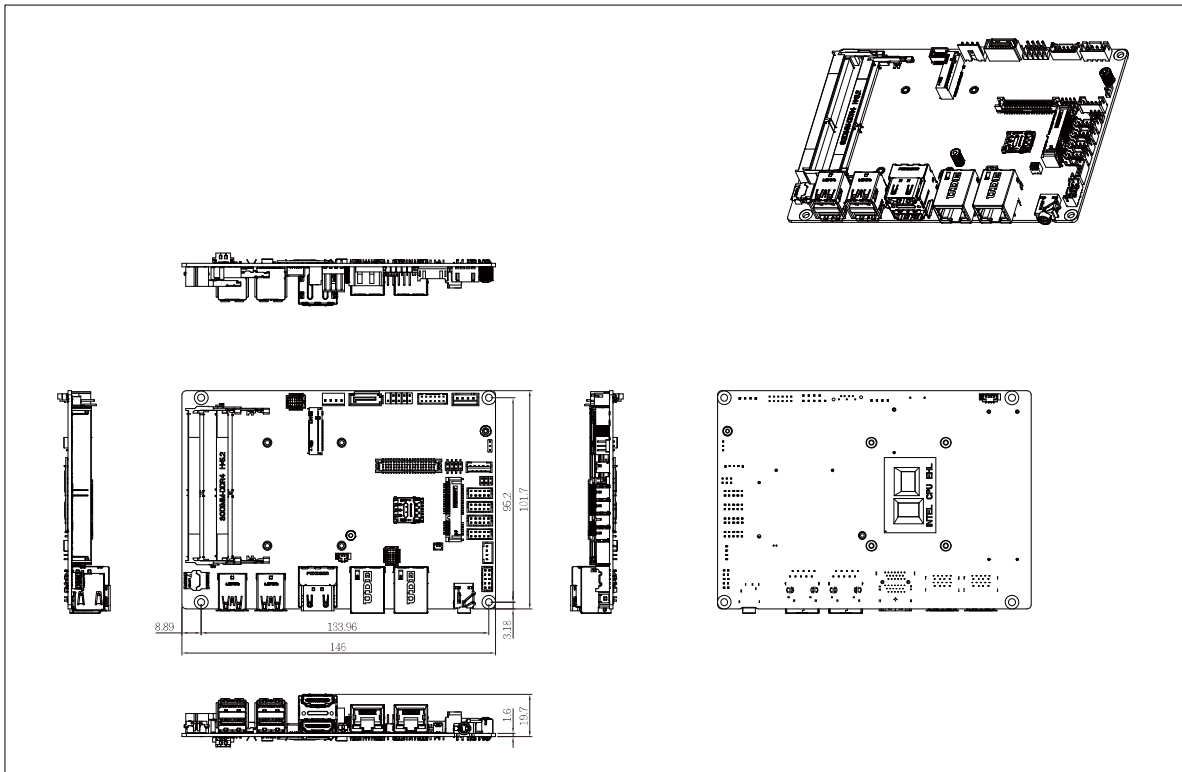
### Specifications

Form Factor	3.5" SBC 146W x 101.7Dmm
CPU	Intel® Atom® x6413E Processor 10nm, 4 cores, 4 threads, up to 3.0 GHz TDP 9W
Socket	1 x FCBGA1493
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Support Dual channel DDR4 3200 MHz memory modules
Ethernet	2 x GbE LAN Ports
Video	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz  (3 independent display outputs)
Audio	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port

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## Dimension

Unit: mm



## Packing Content

- Carton size: 375 x 324 x 293 (mm)
- Packing Capacity: 10pcs
- Including:
  - SATA Power cable x 1 (P/N: 25CRI-200B02-K1R)
  - Fanless Heatsink x 1 (P/N: 25ST1-12311E-A7R)

## Order Information

- Motherboard: 9MEHLEASMR-SI1 (Box Packing)

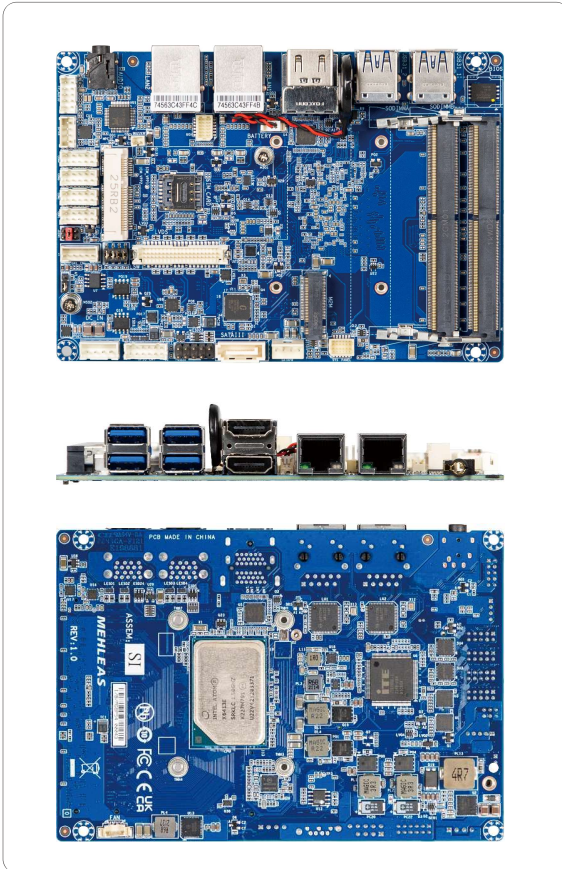
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## QBIP-x6413EA (MEHLEAS)

3.5" SubCompact Embedded Motherboard with Intel® Atom® x6413E Processor, Dual Channel DDR4 memory, 4 x COM, 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 1, 2 x USB 2.0



### Features

- 3.5" SBC
- Intel® Atom® x6413E
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN Ports
- 1 x SATA 6Gb/s Port
- M.2 with PCIe x2, SATA 6Gb/s
- 2 x HDMI, LVDS ports for multiple display
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 1 x COM Port (RS-232/422/485)
- 2 x COM Ports (RS-232)

Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x Full-size mini PCIe with SIM slot
Internal I/O	1 x 4-pin box power connector (DC in +9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
OS Compatibility	Windows 10 (x64)
Operating Properties	Operating temperature: 0°C to +60°C Operating humidity: 0-90% (non-condensing) Non-operating temperature: -40°C to +85°C Non-operating humidity: 0%-95% (non-condensing)

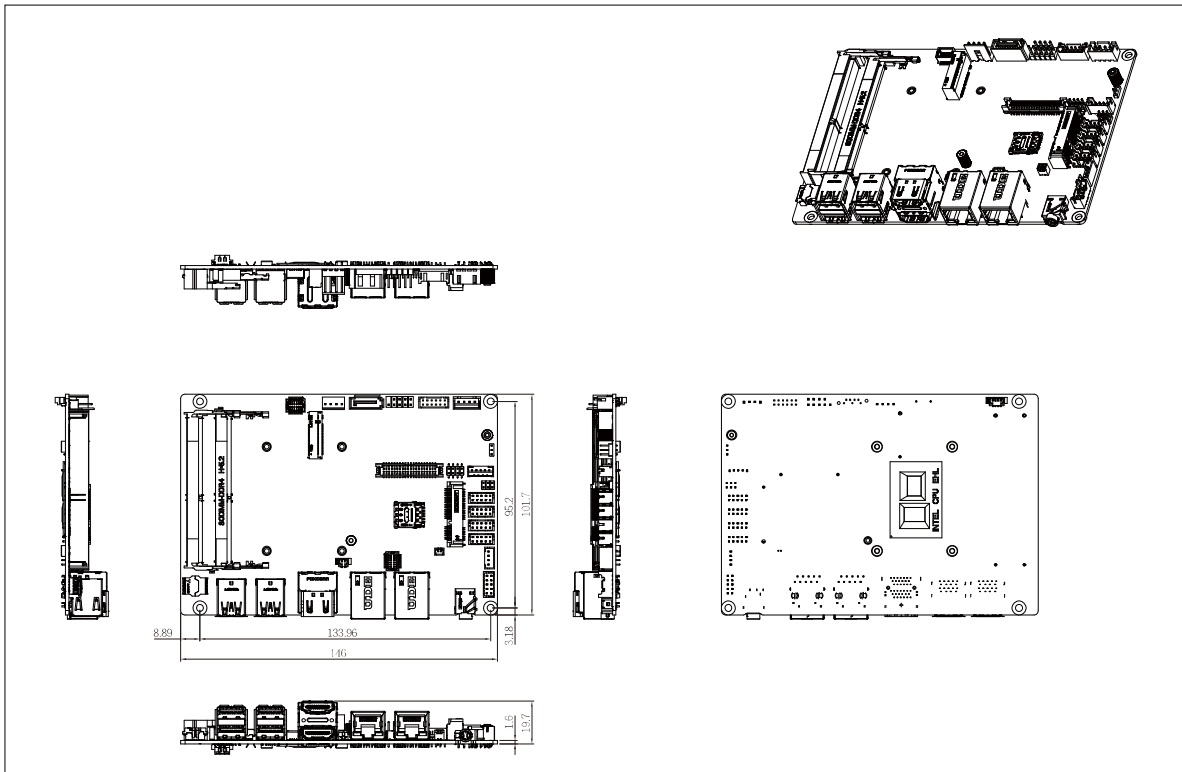
### Specifications

Form Factor	3.5" SBC 146W x 101.7Dmm
CPU	Intel® Atom® x6413E Processor 10nm, 4 cores, 4 threads, up to 3.0 GHz TDP 9W
Socket	1 x FCBGA1493
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Support Dual channel DDR4 3200 MHz memory modules
Ethernet	2 x GbE LAN Ports
Video	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz  (3 independent display outputs)
Audio	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port

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## Dimension

Unit: mm



## Packing Content

- Carton size: 465 x 351 x 217 (mm)
- Packing Capacity: 10pcs
- Including:
  - SATA Power cable x 1 (P/N: 25CRI-200B02-K1R)

## Order Information

- Motherboard: 9MEHLEASMR-SI (Box Packing)

## Optional Kit

- Fanless Heatsink x 1 (P/N: 25ST1-12311E-A7R)

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Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

## Headquarters

### Germany



### FORTEC Elektronik AG

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894450-0  
E-Mail: [info@fortecaq.de](mailto:info@fortecaq.de)  
Internet: [www.fortecaq.de](http://www.fortecaq.de)

## Fortec Group Members

### Austria



### Distec GmbH Office Vienna

Nuschinggasse 12  
1230 Wien

Phone: +43 1 8673492-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

### Germany



### Distec GmbH

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894363-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

### Switzerland



### ALTRAC AG

Bahnhofstraße 3  
5436 Würenlos

Phone: +41 44 7446111  
E-Mail: [info@altrac.ch](mailto:info@altrac.ch)  
Internet: [www.altrac.ch](http://www.altrac.ch)

### United Kingdom



### Display Technology Ltd.

Osprey House, 1 Osprey Court  
Hinchingsbrooke Business Park  
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600  
E-Mail: [info@displaytechnology.co.uk](mailto:info@displaytechnology.co.uk)  
Internet: [www.displaytechnology.co.uk](http://www.displaytechnology.co.uk)

### USA



### Apollo Display Technologies, Corp.

87 Raynor Avenue, Unit 1  
Ronkonkoma, NY 11779

Phone: +1 631 5804360  
E-Mail: [info@apolloDisplays.com](mailto:info@apolloDisplays.com)  
Internet: [www.apolloDisplays.com](http://www.apolloDisplays.com)