



QBi (10x10 M/B)

QBi-1315EA

Preliminary

Key Features

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Embedded Compact Board with Intel® Core™ i3-1315UE Processor, Dual Channel DDR5 memory, 1 x COM, 6 x USB, 2 x HDMI, TPM on board

- Embedded IPC Motherboard
- Intel® Core™ i3-1315UE Processor
- Dual Channel DDR5, 2 x SO-DIMMs
- 1 x GbE LAN Port
- 1 x 2.5GbE LAN Port
- 2 x HDMI Ports

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Specification

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Form Factor

Embedded Compact Board
105W x 110D (mm)

CPU

Intel® Core™ i3-1315UE Processor
Intel® 7, 6 cores, 2P+4E, 8 threads, up to 4.5 GHz
TDP 15W

Socket

1 x FCBGA1774

Memory

2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB
Support Dual Channel DDR5 4800 MHz memory modules

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Ethernet

1 x 2.5 GbE LAN ports (Intel® I226V)
1 x GbE LAN ports (Realtek® RTL8111H)

Video

Integrated Graphics Processor - Intel® UHD Graphics for 13th Gen Intel® Processors:
2 x HDMI 2.0 ports, supporting a maximum resolution of 4096x2160 @60Hz
1 x DP 1.4 through USB Type C (DP Alt. mode), supporting a maximum resolution of 7680x4320 @30Hz

(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 x4, SATA 6Gb/s)
1 x 2230 M.2 E-Key

Internal I/O

1 x CPU fan header
1 x Front panel header
1 x Front panel audio header
1 x USB 2.0 header
1 x SATA Power header

Front I/O

2 x USB 3.2 Gen 2x1
1 x Power button
1 x Audio Jack (Combo)
1 x USB 3.2 Type C Gen 2x1 (with DP Alt. mode)
1 x COM Port (RS-232/422/485)

Rear I/O

2 x HDMI
2 x RJ45 LAN Ports
2 x USB 3.2 Gen 2x1
1 x Screw type DC Jack (+12V~36VDC)

TPM

Onboard TPM 2.0 security chip
INFINEON SLB9670VQ2.0

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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Order Information

9MRLU3AHMR-SI (Box packing)