



QBi-8145A

Embedded Compact Board with Intel® Core™ i3-8145UE Processor, Dual Channel DDR4 memory, 1 x COM, 1 x SATA 6Gb/s, 6 x USB

Key Features

- Embedded IPC Mother Board
- Intel® Core™ i3-8145UE Processor
- Dual Channel DDR4, 2 x SO-DIMMs
- 2 x GbE LAN port
- 1 x SATA 6Gb/s ports
- Ultra-Fast M.2 with PCIe Gen3 x4 interface
- 2 x HDMI ports, eDP port for multiple display
- Intel® integrated Audio
- 1 x RS-232/422/485 COM port

Application

- Factory Automation
- Smart Retail
- Industrial PC
- KIOSK / POS
- Embedded & Industrial Applications
- Healthcare
- IoT system

SPECIFICATION

Embedded Compact Board with Intel® Core™ i3-8145UE Processor, Dual Channel DDR4 memory, 1 x COM , 1 x SATA 6Gb/s, 6 x USB

FORM FACTOR	Embedded Compact Board 105W x 110D mm
CPU	Intel® Core™ i3-8145UE Processor 14nm, 2 cores 2.2GHz up to 3.90 GHz TDP 15W
SOCKET	1 x FCBGA1528
MEMORY	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB Dual channel memory architecture Support for DDR4 2400 MHz memory modules
ETHERNET	2 x GbE LAN port (Intel® i219V & Realtek RTL8111HS)
VIDEO	Integrated Graphics Processor - Intel® UHD Graphics 620 support 2 x HDMI 1.4 port, supporting a maximum resolution of 3840x2160@24Hz 1 x eDP port, supporting a maximum resolution of 3840x2160@60Hz (3 independent display outputs)
AUDIO	Intel® integrated Audio
STORAGE	1 x SATA 6Gb/s port RAID (0/1)
EXPANSION SLOTS	1 x M.2 slot: - M-key - SATA 6Gb/s / PCIe X4 - Supports NGFF-2280 cards 1 x M.2 slot: - E-key - Supports NGFF-2230 (WiFi/BT)
INTERNAL I/O	1 x 2-pin power connector 1 x SATA 6Gb/s connector 1 x CPU fan header 1 x USB 2.0/1.1 headers 1 x Vertical USB3.0 connector (flex to PCIe X1) 1 x LPC header 1 x Front panel header 1 x SATA Power header (option for eDP Power) 1 x Front Audio header (option for GPIO)
FRONT IO	2 x USB3.1 Gen2 1 x Power button

	1 x COM Port (RS-232/422/485)
REAR IO	2 x HDMI 2 x RJ45 2 x USB3.1 Gen2 1 x Screw type DC Jack
OS COMPATIBILITY	Windows 10 (x64)
PSU CONNECTORS	1 x 9V~36V DC-in Full Range 1 x 2-pin Box header power connector (9~36V Full Range)
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)
PACKAGING CONTENT	Bulk Packing Capacity: 20pcs Carton size: 483x355x164(mm) Content: CABLE SATA POWER 150mm*1 (25CRI-150621-K1R)
ORDER INFORMATION	9MWHLUCHMR-SI
OPTIONAL KIT	Fan HS P/N: 12SF2-01A073-00R Heat spreader P/N: 25ST5-8265A1-A8R