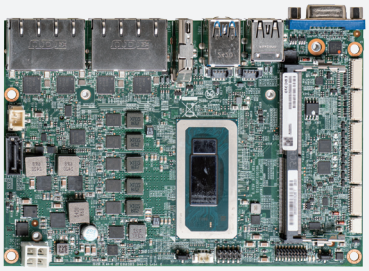
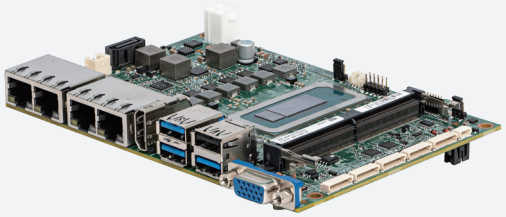
EBC 370/EBC 370X

3.5" SubCompact Board with
13th Gen Intel® Core™ processor





Main Features

- Intel® 13th Gen Intel® Core™ i7 processor, 15W, 28W
- 1 x DDR5 5200 SO-DIMM, non-ECC, up to 32GB
- 1 x VGA, 1 x HDMI®, supports multiple displays
- TPM 2.0
- 24V DC IN
- 4 x 2.5 GbE LAN
- 3 x USB 3.2 Gen2, 3 x USB 2.0, 2 x RS-232, 2 x RS-232/485/422, 1 x SATA 3.0 , 16-bit GPIO (8 IN , 8 OUT)
- 1 x MXM slot (PCIe x4 LANS for MXM GPU card support)
- 1 x M.2 Key B , 1 x M.2 Key M

Product Overview

The EBC370/EBC370X is a 3.5" single board computer (SBC) powered by 13th Gen Intel® Core™ processors. It features a SO-DIMM socket, supporting up to 32GB of DDR5 5200MHz memory with non-ECC support, along with integrated Intel® Iris® Xᵉ graphics.

Designed for performance and versatility, the EBC370/EBC370X includes an MXM slot, accommodating graphics accelerator cards or I/O expansion cards to meet diverse AI and visual needs.

With a wide operating temperature ranging from -20°C to 70°C, the EBC370X sustains in harsh environments, making it ideal for outdoor and semi-outdoor embedded applications including kiosks, home automation, and thin clients.

Specifications

CPU/Chipset

- 13th Gen Intel® Core™ processor
  - EBC370: Intel® Core™ i7-1370PRE, 28W
  - EBC370X: Intel® Core™ i7-1365URE, 15W

Main Memory

- 1 x DDR5 5200 SO-DIMM, non-ECC, up to 32GB

BIOS

- AMI (UEFI)

Display

- 1 x VGA, up to 1920x1080@60Hz
- 1 x HDMI® 2.0b, up to 3840x2160@30Hz
- Support multiple displays

Storage

- 1 x SATA 3.0 / 1 x SATA power connector x 1(+5V)
- 1 x M.2 Key M 2280 (SATA/PCIe x4 NVME)

Expansion Slot

- 1 x M.2 Key B 3052 (for LTE/ 5G), (PCIe x2/USB 3.0) with nano-SIM
- MXM connector (PCIe x4 LANS for MXM/IO)

Rear I/O

- 3 x USB 3.2 Gen 2
- 4 x 2.5GbE LAN
- 1 x USB 2.0
- 1 x VGA, 1 x HDMI®

Internal I/O

- 2 x USB 2.0 (Pin Header)
- 4 x COM port
  - 2 x RS-232, 2 x RS-232/485/422
- 1 x Front panel header
- 1 x 16-bit GPIO (8 IN , 8 OUT)
- 1 x Fan connector
- WDT, supports TPM 2.0

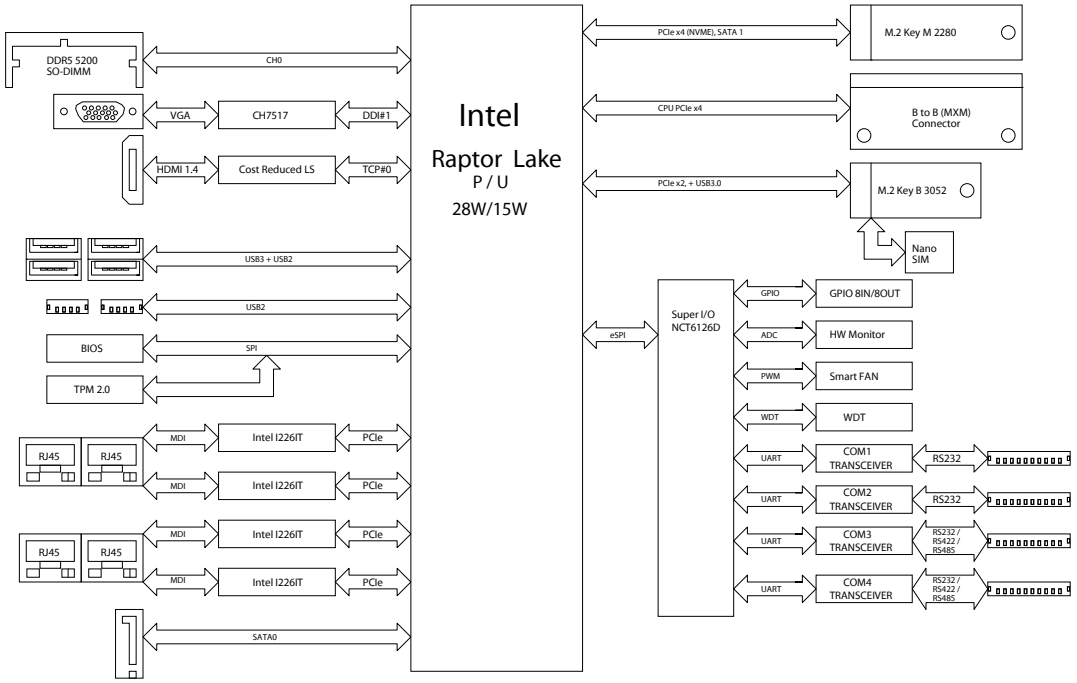
Power Requirement

- 1 x 4-pin (2x2) ATX power connector
  - Input power DC 24V Only
- Support both AT and ATX power supply mode

Dimensions

- 3.5" SBC Form Factor (146mm x 105mm)

Dimension Drawing



Environment

- Board level operation temperature:
  - EBC370: 0°C~60°C
  - EBC370X: -20°C~70°C
- Storage temperature: -40°C~85°C
- Relative humidity:
  - 10%~95% (operating, non-condensing)
  - 5%~95% (non-operating, non-condensing)

Certifications

- Meet CE / FCC Class A

Ordering Information

Barebone

- EBC370 (P/N: 10E00037004X0)
- EBC370X (P/N: 10E00037003X)

Packing List

- 1 x main board
- 1 x COM port cable (P/N: 60233SIO62X00)
- 1 x SATA cable (P/N: 60233AT128X00)

Optional Accessories

- Power Adapter (P/N: 7400120026X00)
  Adapter FSP: FSP120-AAAN3 (120W 24V/5A, W/3PIN Phoenix contact)
- DC POWER CABLE (P/N: 603POW0391X00)
  POWER cable ST: ST-1906022 ATX 2x2P PIT: 4.2mm TO
  TERMINAL BLOCKS 3P PIT: 5.08mm L=230mm
- Cooler (P/N: 685050203701F)
  EBC370 COOLER KIT 146x101.7x36.4mm