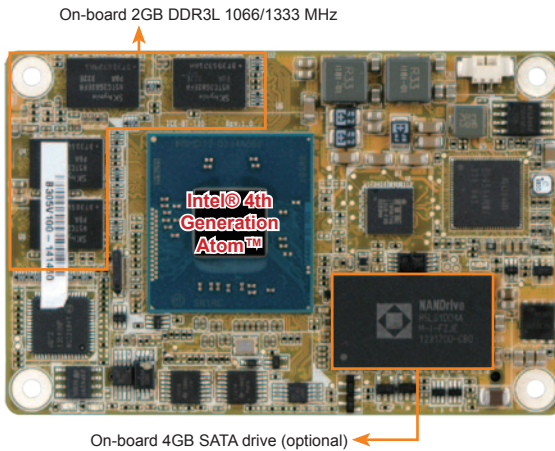


TYPE 10

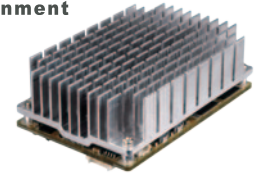
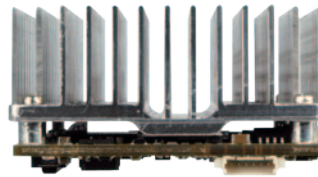
# ICE-BT-T10

COM Express Rev 2.1 Mini Size Type 10 Module, Intel® 4th Generation Atom™ Processor, VGA, DDI, GbE, SATA 3Gb/s, USB and Audio, -40°C to +85°C and RoHS



The one-piece heatsink for COM Express Type 10 provides better thermal solution

**New**



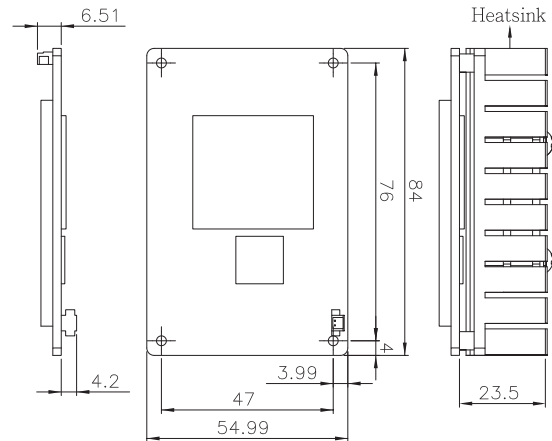
## Specifications

- ◆ CPU
  - Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)
  - Intel® Atom™ E3827 on-board SoC (1.75GHz, dual-core, 1MB cache, TDP=8W)
  - Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)
  - Intel® Atom™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)
  - Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W)
  - Intel® Celeron® J1900 on-board SoC (2GHz, quad-core, 2MB cache, TDP=10W)
  - Intel® Celeron® N2930 on-board SoC (1.83GHz, quad-core, 2MB cache, TDP=7.5W)
  - Intel® Celeron® N2807 on-board SoC (1.58GHz, dual-core, 2MB cache, TDP=4.3W)
- ◆ Memory
  - 2GB soldered down 1066/1333 MHz DDR3L memory (4GB optional)
- ◆ BIOS
  - UEFI BIOS
- ◆ Graphics Engine
  - Intel® HD Graphics Gen 7 Engines with 4 execution units, supports DX11.1, OpenGL 4.2 and OpenCL 1.2
- ◆ Display Output
  - 1 x VGA (2560x1600) (via reserved pin)
  - 1 x DDI (DP/HDMI, max. resolution 2560x1600/1920x1080)
  - 1 x eDP
- ◆ Ethernet
  - Intel® I210-AT GbE controller (Intel® I210-IT GbE controller with W2 sku)
- ◆ Embedded Controller
  - ITE IT8587VG-FX
- ◆ Storage
  - 2 x SATA 3Gb/s signal to baseboard
  - Optional soldered down 4GB SSD (SATA port 1)
- ◆ I/O Interface
  - 4 x USB 2.0 signal to baseboard
  - 1 x USB 3.0 signal to baseboard
- ◆ Audio
  - High-definition Audio interface to baseboard
- ◆ GPIO
  - Yes, to baseboard
- ◆ SMBus
  - Yes, to baseboard
- ◆ I²C
  - Yes, to baseboard
- ◆ LPC
  - Yes, to baseboard
- ◆ SPI
  - Yes, to baseboard
- ◆ Internal Storage
  - The device shall have the capacity of at least 2 kbits, and shall have three address inputs. Suitable devices include the Atmel AT24C32C, ST M24C32 and other compatible devices.
- ◆ Serial Port
  - Two serial ports to baseboard (TX & RX from EC)
- ◆ Expansion
  - 3 x PCIe x1 signal to baseboard
- ◆ Watchdog Timer
  - Software programmable, supports 1~255 sec. system reset (from EC)
- ◆ Power Consumption
  - 12V@0.43A, Vcore\_12V@0.9 A (Intel® Atom™ E3845 CPU, 2GB 1333 MHz DDR3L memory)
- ◆ Operating Temperature
  - 20°C ~ 60°C
  - 40°C ~ 85°C (ICE-BT-10-E38001W2)
- ◆ Storage Temperature
  - 20°C ~ 60°C
  - 40°C ~ 85°C (ICE-BT-10-E38001W2)
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Dimensions
  - 84 mm x 55 mm (mini size)
- ◆ Weight
  - GW: 300g / NW: 150g

## Features

- Intel® 22nm Atom™ or Celeron® on-board SoC supported
- Type 10 connector pinout according to COM.0 R2.1
- Supports 2GB 1066/1333 MHz DDR3L memory
- Optional soldered down 4GB SSD
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery
- Support wide range operating temperature: -40°C to +85°C

## Dimensions (Unit: mm)



## Packing List

1 x ICE-BT-T10 single board computer	1 x QIG (Quick Installation Guide)
1 x Heatsink	1 x Utility CD

## Ordering Information

Part No.	Description
ICE-BT-T10-E38451W2-R10	COM Express Basic Type 10 module supports Intel® Atom™ processor E3845 (quad core, 10W), on-board 2GB DDR3L, VGA, DDI, GbE, SATA, USB 3.0 and HD Audio, -40°C ~ 85°C and RoHS
ICE-BT-T10-E38251W2-R10	COM Express Basic Type 10 module supports Intel® Atom™ processor E3825 (dual core, 6W), on-board 2GB DDR3L, VGA, DDI, GbE, SATA, USB 3.0 and HD Audio, -40°C ~ 85°C and RoHS
ICE-BT-T10-E38451-R10	COM Express Basic Type 10 module supports Intel® Atom™ processor E3845 (quad core, 10W), on-board 2GB DDR3L, VGA, DDI, GbE, SATA, USB 3.0 and HD Audio, and RoHS
ICE-BT-T10-E38251-R10	COM Express Basic Type 10 module supports Intel® Atom™ processor E3825 (dual core, 6W), on-board 2GB DDR3L, VGA, DDI, GbE, SATA, USB 3.0 and HD Audio, and RoHS
ICE-BT-T10-E38151-R10	COM Express Basic Type 10 module supports Intel® Atom™ processor E3815 (single core, 5W), on-board 2GB DDR3L, VGA, DDI, GbE, SATA, USB 3.0 and HD Audio, and RoHS
ICE-DB-T10-R10	Baseboard for COM Express Type 10 module COM.0 Rev. 2.1, supports PICMG EAPI R1.0

Note: Models with other CPUs not listed in the table are requested by MOQ - 100 pcs/lot.

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