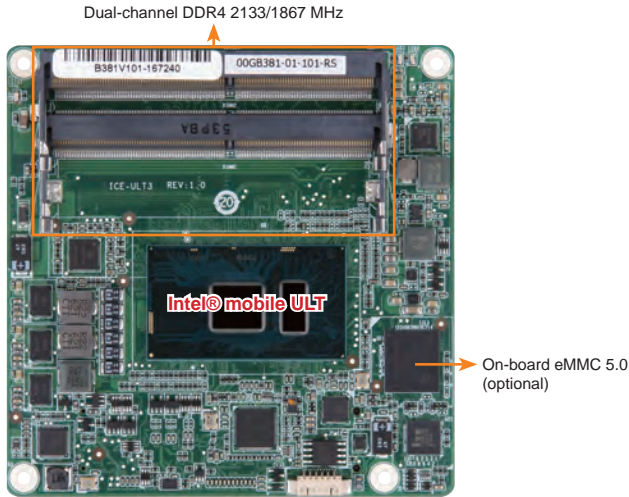


**TYPE 6**

# ICE-ULT3

COM Express Compact size Type 6 Module, 6th Generation Intel® Core™ ULT Processor, DDR4, VGA, LVDS, DDI, GbE, SATA 6Gb/s, USB 3.0 and HD Audio, RoHS

**New**



One piece heat sink for COM Express Basic Size provides better thermal solution



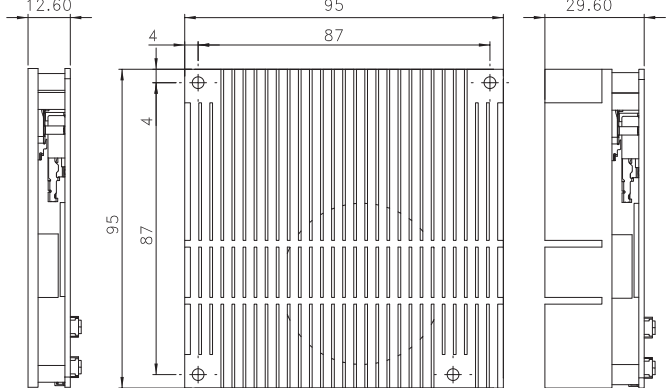
## Specifications

- ◆ CPU
  - 6th generation Intel® mobile ULT on-board SoC
  - Intel® Core™ i7-6600U (up to 3.4GHz, dual-core, 4MB cache, TDP=15W)
  - Intel® Core™ i5-6300U (up to 3.0GHz, dual-core, 3MB cache, TDP=15W)
  - Intel® Core™ i3-6100U (up to 2.3GHz, dual-core, 3MB cache, TDP=15W)
  - Intel® Celeron® processor 3955U (up to 2.0GHz, dual-core, 2MB cache, TDP=15W)
  - Intel® Celeron® processor 3855U (up to 1.6GHz, dual-core, 2MB cache, TDP=15W)
- ◆ Memory
  - Two 260-pin 2133/1867 MHz dual-channel DDR4 non-ECC unbuffered SO-DIMMs support up to 32GB
- ◆ BIOS
  - UEFI BIOS
- ◆ Graphic Engine
  - Intel® HD Graphics Gen 9 support for DX11/12, OCL 2.x, OGL 4.3/4.4, ES 2.0 Decode/Encode for HEVC, VP8, VP9 2, VDENC
- ◆ Display Output
  - 1 x DDI: DisplayPort/HDMI/DVI (up to 3840x2160@60Hz)
  - 1 x DDI: DisplayPort/HDMI/DVI (up to 3840x2160@60Hz) (Option with 1 x CRT via CH7517) (up to 1920x1200@60Hz)
  - 1 x DDI: Embedded DP (up to 3840x2160@60Hz) (Option with 1 x Dual Channel LVDS 18/24 bit via CH7511B) (up to 1920x1200@60Hz)
- ◆ Ethernet
  - Intel® Clarkville-V I219LM Support Intel® AMT 11.0
- ◆ I/O Interface
  - 2 x RS-232 (2-Wire) to base board
  - 4 x USB 2.0 to base board
  - 4 x USB 3.0 to base board (with 4 x USB 2.0)
  - 2 x SATA 6Gb/s signal to base board
- ◆ Audio
  - High definition audio interface
- ◆ SMBus
  - YES, to base board
- ◆ I<sup>2</sup>C
  - YES, to base board
- ◆ LPC
  - YES, to base board
- ◆ Expansion
  - 1 x PCIe x1 signal to base board (Via PCIe x16 channel)
  - 8 x PCIe x1 signal to base board
- ◆ Watchdog Timer
  - Software programmable, supports 1~255 sec. system reset
- ◆ eMMC
  - eMMC 5.0 (optional)
- ◆ GPIO
  - 8 bit GPIO, to base board
- ◆ TPM
  - Through base board
- ◆ Power Supply
  - 12V: 12V±5%, 5VSB: 5V±5%, RTC Battery: 2.0-3.3V
- ◆ Power Consumption
  - +12V@2.57A, 5VSB@0.04A, 5V@0.02A (Intel® Core™ i7-6600U with two 8GB 2400 MHz DDR4 memory)
- ◆ Operating Temperature
  - 20°C ~ 65°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Dimension
  - 95 mm x 95 mm
- ◆ Weight
  - GW: 600g / NW: 250g
- ◆ CE/FCC compliant

## Features

- Intel® Skylake ULT Processors supported
- Intel® HD Graphics technology integrates high-performance graphics and media processing
- Two 260-pin 2133/1867 MHz Dual-Channel DDR4 SDRAM Unbuffered DIMM supported (system max. 32GB)
- 18/24-bit dual-channel LVDS, analog CRT, DDI supported
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery
- Support Intel® AMT 11.0

## Dimensions (Unit: mm)



## Packing List

1 x ICE-ULT3 single board computer	1 x Driver CD
1 x Heatsink	1 x QIG

## Ordering Information

Part No.	Description
ICE-ULT3-i7-R10	COM Express Compact size Type 6 Module, 6th Generation Intel® Core™ i7-6600U (15W) on-board Processor (ULT), DDR4, VGA, LVDS, DDI, GbE, USB 3.0, SATA 6Gb/s and HD Audio, RoHS
ICE-ULT3-i5-R10	COM Express Compact size Type 6 Module, 6th Generation Intel® Core™ i5-6300U (15W) on-board Processor (ULT), DDR4, VGA, LVDS, DDI, GbE, USB 3.0, SATA 6Gb/s and HD Audio, RoHS
ICE-ULT3-i3-R10	COM Express Compact size Type 6 Module, 6th Generation Intel® Core™ i3-6100U (15W) on-board Processor (ULT), DDR4, VGA, LVDS, DDI, GbE, USB 3.0, SATA 6Gb/s and HD Audio, RoHS
ICE-ULT3-C-R10	COM Express Compact size Type 6 Module, Intel® Celeron® 3955U (15W) on-board Processor (ULT), DDR4, VGA, LVDS, DDI, GbE, USB 3.0, SATA 6Gb/s and HD Audio, RoHS
ICE-ULT3-CE-R10	COM Express Compact size Type 6 Module, Intel® Celeron® 3855U (15W) on-board Processor (ULT), DDR4, VGA, LVDS, DDI, GbE, USB 3.0, SATA 6Gb/s and HD Audio, RoHS
ICE-DB-T6R-R11	Base Board for COM Express Type 6 Module COM.0 Rev. 2.1, support PICMG EAPI R1.0