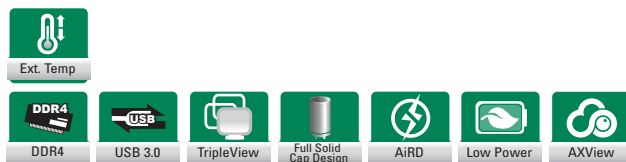


# CEM511

COM Express Type 6 Compact Module with 7th Gen Intel® Core™ & Celeron® Processor

## Features

- 7th gen Intel® Core™ i7/i5/i3 and Celeron® processors (Kaby Lake-U)
- 2 DDR4-2133 SO-DIMM for up to 32GB of memory
- Max. up to 6 lanes of PCI Express
- 3 SATA-600
- 4 USB 3.0 and 8 USB 2.0
- TPM 1.2 supported
- AXView 2.0 intelligent remote management software

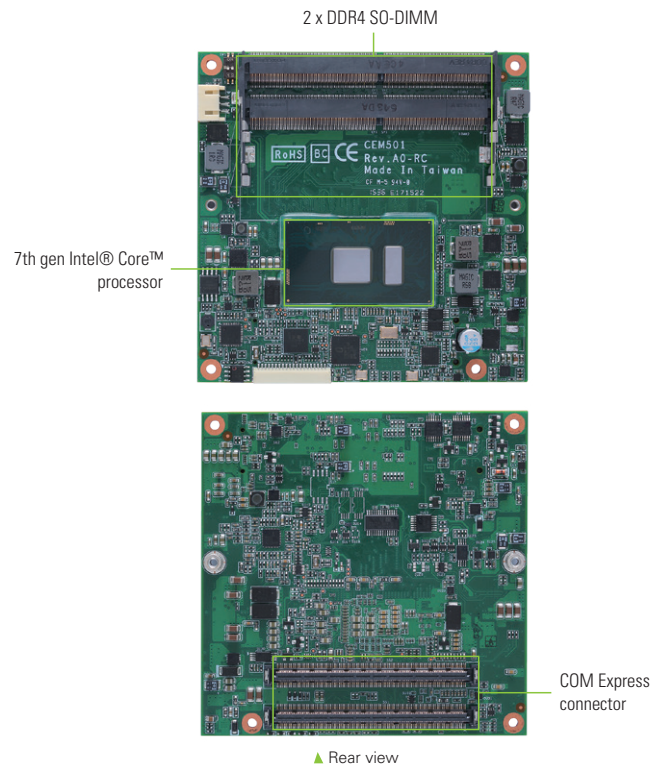


## Core System

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| CPU                   | Intel® Core™ i7-7600U/i5-7300U/i3-7100U processor (Kaby Lake-U) & Intel® Celeron® processor 3965U |
| System Memory         | 2 x 260-pin DDR4-2133 SO-DIMM, up to 32GB                                                         |
| Chipset               | SoC integrated                                                                                    |
| BIOS                  | AMI uEFI (Legacy free)                                                                            |
| SSD                   | N/A                                                                                               |
| Watchdog Timer        | 65536 levels, 0 to 65535 sec.                                                                     |
| Expansion Interface   | 6 x PCI Express Gen3                                                                              |
| Battery Lithium       | N/A                                                                                               |
| Power Input           | ATX: +12V, +5VSB<br>AT: +12V                                                                      |
| Dimensions            | 95 x 95 mm                                                                                        |
| Board Thickness       | 2.0 mm                                                                                            |
| Operating Temperature | -40°C to +85°C (-40°F to +185°F)                                                                  |
| Humidity              | 10% to 95% relative humidity, non-condensing                                                      |
| Vibration Endurance   | 3.5 Grms                                                                                          |

## I/O

|                     |                                                                                       |
|---------------------|---------------------------------------------------------------------------------------|
| SATA                | 3 x SATA-600                                                                          |
| Hardware Monitoring | Yes                                                                                   |
| Ethernet            | 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM |
| Audio               | HD link interface to baseboard for Codec                                              |
| USB                 | 4 x USB 3.0<br>8 x USB 2.0                                                            |
| Serial              | 1 x LPC<br>1 x SPI<br>2 x TX/RX                                                       |
| TPM                 | TPM 1.2                                                                               |
| SMBus               | Yes                                                                                   |
| Others              | 1 x I <sup>2</sup> C                                                                  |
| GPIO                | 4-CH in & 4-CH out (SDIO optional)                                                    |
| Smart Battery       | Yes                                                                                   |



## Display

|                   |                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Chipset           | Intel® gen 9 Graphics Engine<br>Supports Gfx - DX12.0, OCL2.0, OGL4.3                                                       |
| Display Interface | 2 x DDI (DP/HDMI/DVI); the 2nd DDI could be configured to VGA (optional)<br>1 x LVDS; 18/24-bit dual channel (eDP optional) |

## Packing List

Quick installation guide

## Ordering Information

| Standard                             |                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------|
| CEM511PG-i7-7600U (P/N: E38D511102)  | COM Express Type 6 Compact module with Intel® Core™ i7-7600U, DDI, LVDS, GbE LAN, USB 3.0 and TPM |
| CEM511PG-i5-7300U (P/N: E38D511101)  | COM Express Type 6 Compact module with Intel® Core™ i5-7300U, DDI, LVDS, GbE LAN, USB 3.0 and TPM |
| CEM511PG-i3-7100U (P/N: E38D511100)  | COM Express Type 6 Compact module with Intel® Core™ i3-7100U, DDI, LVDS, GbE LAN, USB 3.0 and TPM |
| CEM511PG-Cel-3965U (P/N: E38D511103) | COM Express Type 6 Compact module with Intel® Celeron® 3965U, DDI, LVDS, GbE LAN, USB 3.0 and TPM |
| Optional                             |                                                                                                   |
| CEB94011 (P/N: E394011100)           | COM Express Type 6 application board                                                              |
| 7108D511000E                         | CEM511 heat sink with fan                                                                         |
| 5078D501200E                         | CEM511 heat spreader                                                                              |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Axiomtek:](#)

[CEM511PG-i3-7100U](#) [CEM511PG-i7-7600U](#) [CEM511PG-i5-7300U](#) [CEM511PG-Cel-3965U](#)