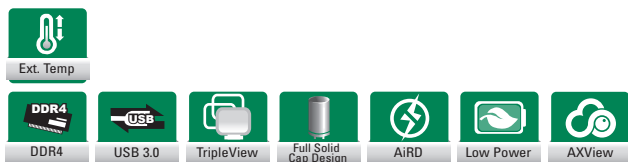


# CEM511

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

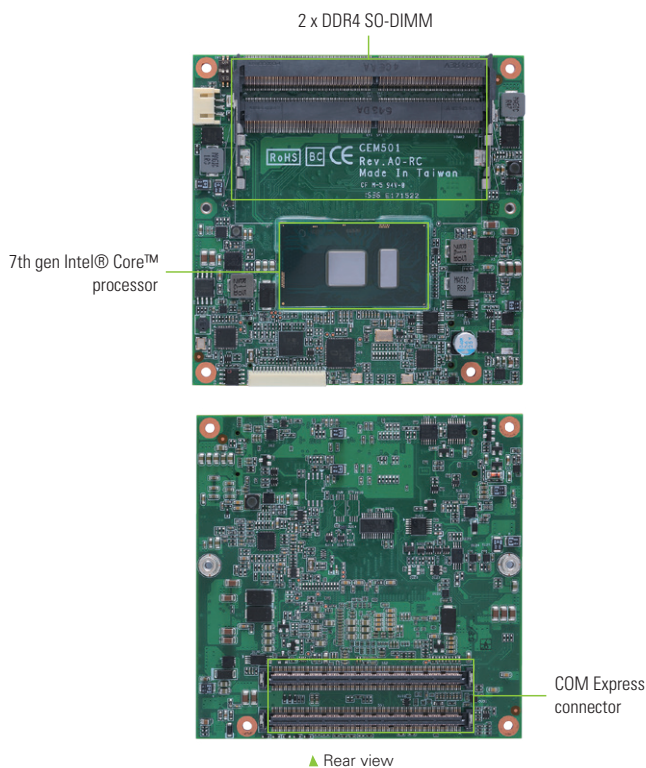


## Core System

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 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 8 x USB 2.0
Serial	1 x LPC 1 x SPI 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 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) 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	CEM501 heat spreader