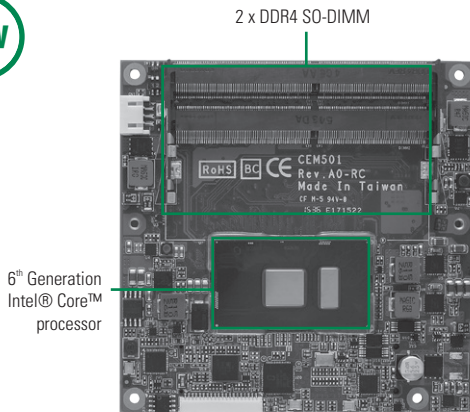


# CEM501

6th Generation Intel® Core™ i7/i5/i3  
Processor COM Express Type 6 Module

NEW



## System

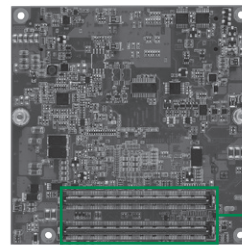
CPU	6th generation Intel® Core™ processor with i7-6600U 2.6 GHz, i5-6300U 2.4 GHz, i3-6100U 2.3 GHz (Skylake-U) onboard
System Memory	2 x 260pin DDR4-2133 SO-DIMM max. up to 32 GB
Chipset	SoC integrated
BIOS	AMI uEFI
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec. or min.
Expansion Interface	6 lanes of PCI Express Gen. 3.0
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB AT: +12V
Size	95 x 95 mm
Board Thickness	2.0 mm
Temperature	-20°C ~ +70°C (-4°F ~ 158°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x LPC interface 1 x SPI interface 2 x Serial TX/RX 1 x I <sup>2</sup> C
SATA	3 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i219LM
Audio	HD link interface to baseboard for Codec
USB	4 x USB 3.0 and 8 x USB 2.0
TPM	Yes
SMBus	Yes
Digital I/O	4 channels IN & 4 channels OUT (SDIO optional)
Battery Support	Yes

## Features

- 6th generation Intel® Core™ i7/i5/i3 processor (Skylake-U)
- 2 DDR4-2133 SO-DIMM max. up to 32 GB memory
- Max. up to 6 lanes of PCI Express
- 3 SATA-600
- 4 USB 3.0 and 8 USB 2.0



COM Express Interface Connector

▲ Rear view

## Display

Chipset	Intel® Gen 9 Graphics Engine support 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	
CEM501PG-i7-6600U	COM Express type 6 module with 6th generation Intel® Core™ i7-6600U (2.6 GHz), DP/LVDS, 10/100/1000 Mbps Ethernet, USB 3.0 and TPM
CEM501PG-i5-6300U	COM Express type 6 module with 6th generation Intel® Core™ i5-6300U (2.4 GHz), DP/LVDS, 10/100/1000 Mbps Ethernet, USB 3.0 and TPM
CEM501PG-i3-6100U	COM Express type 6 module with 6th generation Intel® Core™ i3-6100U (2.3 GHz), DP/LVDS, 10/100/1000 Mbps Ethernet, USB 3.0 and TPM