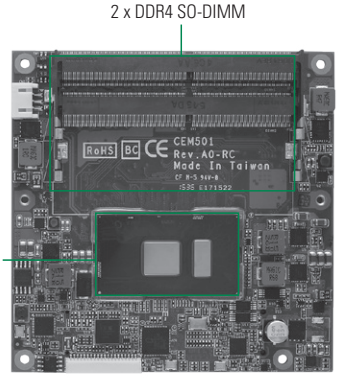
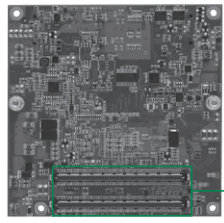
CEM501

COM Express Type 6 Module with 6th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor

Features

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





▲ Rear view

DDR4 | USB 3.0 | TripleView | Full Solid Cap Design | AiRD | Low Power | AXView

Core System

CPU	6th generation Intel® Core™ processor: i7-6600U 2.6 GHz, i5-6300U 2.4 GHz, i3-6100U 2.3 GHz, Celeron®-3955U 2.0 GHz (Skylake-U) onboard
System Memory	2 x 260-pin DDR4-2133 SO-DIMM, up to 32GB
Chipset	SoC integrated
BIOS	AMI uEFI
SSD	N/A
Watchdog Timer	65536 levels, 0 ~ 65535 sec.
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	-40°C ~ +85°C (-40°F ~ +185°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing
Vibration	3.5 Grms

I/O

MIO	1 x LPC interface 1 x SPI interface 2 x Serial TX/RX 1 x I^2C interface
SATA	3 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 port as 10/100/1000 Mbps 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

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-CEL-3955U (P/N : E38D501100)	COM Express Type 6 module Intel® Celeron® 3955U (2.0 GHz), DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM501PG-i7-6600U (P/N: E38D501102)	COM Express Type 6 module with Intel® Core™ i7-6600U (2.6 GHz), DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM501PG-i5-6300U (P/N: E38D501103)	COM Express Type 6 module with Intel® Core™ i5-6300U (2.4 GHz), DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM501PG-i3-6100U (P/N: E38D501101)	COM Express Type 6 module with Intel® Core™ i3-6100U (2.3 GHz), DDI/LVDS, GbE LAN, USB 3.0 and TPM

Optional	
CEB94006 (P/N: E394006100)	ATX form factor Type 6 evaluation board
TS007-CEM501 (P/N: E39J007100)	CEM501 Heatsink w/ fan
5078D501200E	CEM501 Heatspreader

Updated Sep. 28, 2017. * All specifications and photos are subject to change without notice.