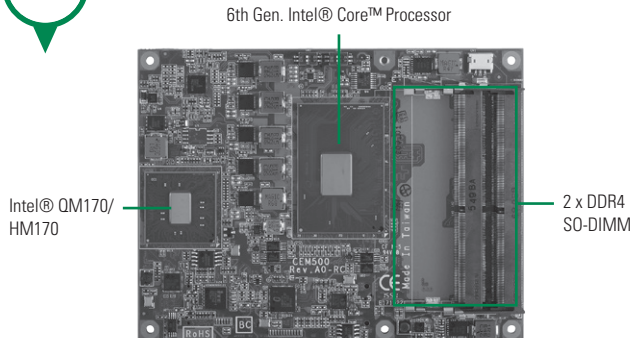


# CEM500

6th Generation Intel® Core™ i7/i5/i3 & Celeron® Processor COM Express Type 6 Module with Intel® QM170/HM170

NEW



## System

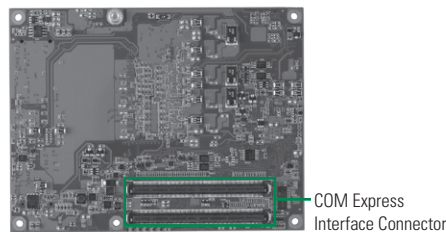
CPU	6th generation Intel® Core™ processor (Skylake) with i7-6820EQ (45W), i5-6440EQ (45W), i3-6100E (35W)
System Memory	2 x DDR4-2133 SO-DIMMs support max. up to 32 GB
Chipset	Intel® QM170/HM170
BIOS	AMI uEFI with Intel® Active Management Technology 11.0 supported
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCIe x16 v3.0 8 x PCIe x1 (7 x1 while internal MAC is connected)
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB; AT: +12V
Size	125 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

## I/O

MIO	1 x LPC interface 1 x SPI interface 1 x I <sup>2</sup> C interface 2 x TX/RX serial interface
SATA	4 x SATA-600 support RAID 0/1/5/10
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	ST for trusted platform
SMBus	Yes
Digital I/O	4 channels IN & 4 channels OUT
Smart Battery	Yes

## Features

- 6th generation Intel® Core™ i7/i5/i3 & Celeron® processor (Skylake-H)
- Intel® QM170/HM170 chipset
- 2 DDR4-2133 SO-DIMMs max. up to 32 GB
- Max. up to 24 lanes of PCIe
- 4 SATA-600
- 4 USB 3.0 and 8 USB 2.0
- Supports TPM function



▲ Rear view

## Display

Chipset	Intel® Gen 9 Graphics Gfx APIs - DX11/12, OCL2.x, OGL 4.3/4.4 3 independent displays
Display Interface	1 x LVDS; 18/24-bit single/dual channel (optional with eDP) 3 x DDI (DP/HDMI/DVI); 1 x DDI optional w/VGA

## Packing List

Quick installation guide, user's manual/utility CD

## Ordering Information

Standard	
CEM500PG-i7-6820EQ	COM Express type 6 module with Intel® Core™ i7-6820EQ 2.8 GHz, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM500PG-i5-6440EQ	COM Express type 6 module with Intel® Core™ i5-6440EQ 2.7 GHz, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM500PG-i3-6100E	COM Express type 6 module with Intel® Core™ i3-6100E 2.7GHz, DDI/LVDS, GbE LAN, USB 3.0 and TPM
Optional	
CEB94011	ATX form factor type 6 evaluation board

SBC Services and Solutions

2

Systems on Modules

Embedded SBCs >EPIC

Embedded SBCs >3.5" Capa

Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

ARM Embedded Boards

Accessories

Appendix

