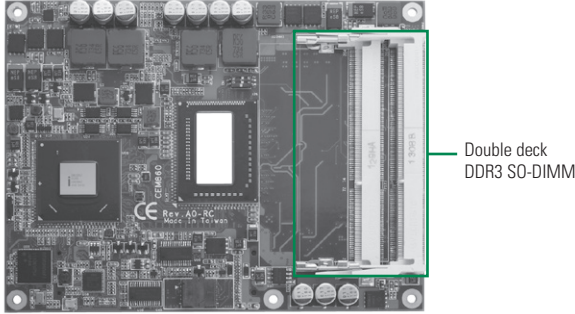


# CEM860

Intel® Core™ i7/i5/i3 COM Express™ Type 6 Module with Intel® QM67



Double deck  
DDR3 SO-DIMM



## System

|                     |   |
|---------------------|---|
| CPU                 | 2nd generation Intel® Quad/ Dual Core™ i7/i5/i3 & Celeron® processor                                      |
| System Memory       | 2 x 204-pin SO-DIMM support DDR3-1066/1333 max. up to 16 GB   |
| Chipset             | Intel® QM67   |
| BIOS                | AMI UEFI BIOS   |
| SSD                 | N/A   |
| Watchdog Timer      | 255 levels, 1~255 sec.  |
| Expansion Interface | 1 x PCIe x16 graphics port<br>6 x PCIe lanes support for 6 x PCIe x1 or 1 x PCIe x4 + 2 x PCIe x1 devices |
| Battery             | N/A   |
| Power Requirements  | Differentiate by onboard processor  |
| Size                | 125 x 95 mm   |
| Board Thickness     | 1.6 mm  |
| Temperature         | 0° ~ +60°C (32°F ~ 140°F), operation  |
| Operation Humidity  | 10% ~ 95% relative humidity, non-condensing   |

## I/O

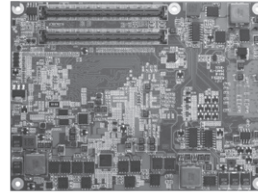
|                     |  |
|---------------------|--|
| MIO                 | 1 x LPC interface<br>1 x SPI interface   |
| SATA                | 2 x SATA-600, 2 x SATA-300   |
| Hardware Monitoring | N/A  |
| Ethernet            | 1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82579LM |
| Audio               | HD link interface to baseboard for external Codec                                    |
| USB                 | 8 x USB 2.0, 2 x USB 3.0 (optional)  |
| TPM 1.2             | Infineon SLB9635 for trusted platform (optional)                                     |
| SMBus               | Yes  |
| Digital I/O         | 4 channels IN & 4 channels OUT   |

## Display

|                   |   |
|-------------------|---|
| Chipset           | Intel® HD graphics 3000 code  |
| Memory Size       | Depending on integrtd GPU   |
| Display Interface | 1 x VGA<br>1 x LVDS; 18/24-bit single/dual channel<br>3 x DDI (SDVO, DP, HDMI, DVI) |

## Features

- 2nd generation Intel® Core™ processor
- Intel® QM67 chipset
- 2 DDR3-1066/1333 SO-DIMMs max. up to 16 GB
- 22 lanes of PCIe Gen 2 at 5GT/s
- 2 SATA-600 & 2 SATA-300
- 8 USB 2.0 ports
- 2 USB 3.0 ports (optional)
- TPM 1.2 supported (optional)



▲ Rear view

## Packing List

Quick installation guide, user's manual/utility CD

## Ordering Information

### Standard

|                                      |   |
|--------------------------------------|---|
| CEM860DG-i5-2515E (P/N: E380860101)  | COM Express type 6 module with Intel® Core™ i5-2515E 3.1 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM (recommended cooler P/N: E39J000101)        |
| CEM860DG-i3-2340UE (P/N: E380860103) | COM Express type 6 module with Intel® Core™ i3-2340UE 1.3 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM (recommended cooler P/N: E39J000101)       |
| CEM860DG-B810E (P/N: E380860104)     | COM Express type 6 module with Intel® Celeron® B810E 1.6 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, TPM (recommended cooler P/N: E39J000102)                    |
| CEM860DG-i7-2715QE (P/N: E380860100) | COM Express type 6 module with Intel® Core™ i7-2715QE 3 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM (recommended cooler P/N: E39J000100)         |
| CEM860DG-i7-2610UE (P/N: E380860102) | COM Express type 6 module with Intel® Core™ i7-2610UE 2.4 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet and TPM (recommended cooler P/N: E39J000100)                |
| CEM860DG-i7-2610UE WT                | COM Express type 6 module with Intel® i7-2610UE 2.4 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, TPM and W.T. (-40° ~ +80°C) (recommended cooler P/N: E39J000100) |

### Cooler with heatspreader

|            |  |
|------------|--|
| CEB94006   | ATX form factor type 6 baseboard                         |
| E39J000100 | TS000-CEM860-i7 with fan RC (up to 45W Core™ i CPU)      |
| E39J000101 | TS000-CEM860-i5/ i3 with fan RC (up to 35W Core™ i CPU)  |
| E39J000102 | TS000-CEM860-celeron with fan RC (up to 35W Core™ i CPU) |

\* W.T.: Wide Temperature

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

