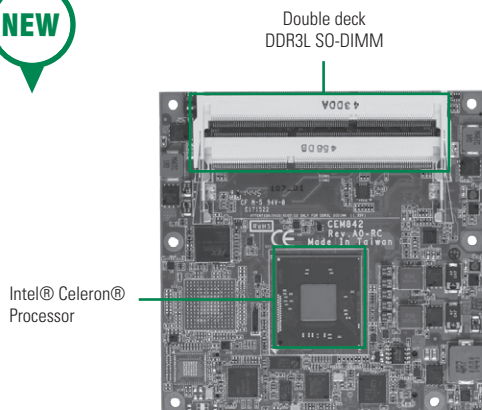


# CEM842

Intel® Celeron® Processor J1900/N2807  
COM Express Type 6 Compact Module

NEW



## System

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| CPU                 | Intel® Celeron® processor J1900 2GHz and N2807 1.58GHz onboard |
| System Memory       | 2 x 204-pin SO-DIMM support DDR3L-1066/1333 up to 8 GB         |
| Chipset             | SoC integrated                                                 |
| BIOS                | AMI uEFI                                                       |
| SSD                 | N/A                                                            |
| Watchdog Timer      | 255 levels, 1~255 sec. or min.                                 |
| Expansion Interface | Max. up to 6 lanes of PCIe                                     |
| Battery Lithium     | N/A                                                            |
| Power Input         | ATX 12V/5VSB or AT 12V                                         |
| Size                | 95 x 95 mm                                                     |
| Board Thickness     | 2.0 mm                                                         |
| Temperature         | 0°C ~ +60°C, operation                                         |
| Operation Humidity  | 10% ~ 95% relative humidity, non-condensing                    |

## I/O

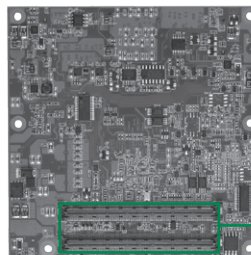
|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| MIO                 | 1 x LPC interface<br>1 x SPI interface                                          |
| SATA                | 2 x SATA-300                                                                    |
| Hardware Monitoring | Yes                                                                             |
| Ethernet            | 1 port as 10/100/1000Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i210IT |
| Audio               | HD link interface to baseboard for Codec                                        |
| USB                 | 8 x USB 2.0 ports and 1 x USB 3.0 port                                          |
| TPM                 | ST33TPM12                                                                       |
| SMBus               | Yes                                                                             |
| Digital I/O         | 4 channels IN & 4 channels OUT                                                  |

## Display

|                   |                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------|
| Chipset           | Intel® HD graphics (Gen 7 Gfx) display engine<br>Gfx APIs – DX11, OCL 1.2, OGL 3.0<br>2 independent displays |
| Display Interface | 1 x VGA<br>1 x LVDS; 18/24-bit single/dual channel<br>1 x DDI (DP, HDMI, DVI)                                |

## Features

- Intel® Quad/ Dual Core Celeron® processor (Bay Trail)
- 2 DDR3L-1066/1333 SO-DIMMs max. up to 8 GB
- Max. up to 6 lanes of PCIe
- 2 SATA-300 interfaces
- 8 USB 2.0 and 1 USB 3.0 ports



COM Express  
Interface Connector

▲ Rear view

## Packing List

Quick installation guide, user's manual/utility CD

## Ordering Information

### Standard

|           |                                                                                                              |
|-----------|--------------------------------------------------------------------------------------------------------------|
| CEM842PVG | COM Express type 6 with Intel® Celeron® J1900/N2807, DDI/VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM |
|-----------|--------------------------------------------------------------------------------------------------------------|

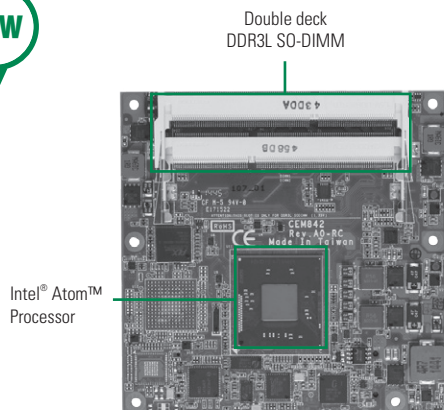
### Compliant Modules

|          |                                  |
|----------|----------------------------------|
| CEB94006 | ATX form factor type 6 baseboard |
| CEM842   | Heatspreader                     |
| CEM842   | Heatsink w/o fan                 |

# CEM843

Intel® Atom™ Processor E3845 COM Express Type 6 Compact Module

NEW



## System

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| CPU                 | Intel® Atom™ processor E3845 1.91GHz onboard           |
| System Memory       | 2 x 204-pin SO-DIMM support DDR3L-1066/1333 up to 8 GB |
| Chipset             | SoC integrated                                         |
| BIOS                | AMI uEFI                                               |
| SSD                 | N/A                                                    |
| Watchdog Timer      | 255 levels, 1~255 sec. or min.                         |
| Expansion Interface | Max. up to 6 lanes of PCIe                             |
| 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, operation                                 |
| Operation Humidity  | 10% ~ 95% relative humidity, non-condensing            |

## I/O

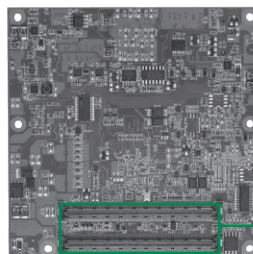
|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| MIO                 | 1 x LPC interface<br>1 x SPI interface                                          |
| SATA                | 2 x SATA-300                                                                    |
| Hardware Monitoring | Yes                                                                             |
| Ethernet            | 1 port as 10/100/1000Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i210IT |
| Audio               | HD link interface to baseboard for Codec                                        |
| USB                 | 8 x USB 2.0 ports and 1 x USB 3.0 port                                          |
| TPM                 | ST33TPM12                                                                       |
| SMBus               | Yes                                                                             |
| Digital I/O         | 4 channels IN & 4 channels OUT                                                  |

## Display

|                   |                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------|
| Chipset           | Intel® HD graphics (Gen 7 Gfx) display engine<br>Gfx APIs – DX11, OCL 1.2, OGL 3.0<br>2 independent displays |
| Display Interface | 1 x VGA<br>1 x LVDS; 18/24-bit single/dual channel<br>1 x DDI (DP, HDMI, DVI)                                |

## Features

- Intel® Quad Core Atom™ processor E3845 (Bay Trail)
- 2 DDR3L-1066/1333 SO-DIMMs max. up to 8 GB
- Max. up to 6 lanes of PCIe
- 2 SATA-300 ports
- 8 USB 2.0 and 1 USB 3.0 ports



▲ Rear view

## Packing List

Quick installation guide, user's manual/utility CD

## Ordering Information

### Standard

|           |                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------|
| CEM843PVG | COM Express type 6 with Intel® Atom™ E3845 1.91GHz, DDI/VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM |
|-----------|-------------------------------------------------------------------------------------------------------------|

### Compliant Modules

|          |                                  |
|----------|----------------------------------|
| CEB94006 | ATX form factor type 6 baseboard |
|          | Heatspreader                     |
|          | Heatsink w/o fan                 |

