

CEM842

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

Features

- Intel® Celeron® processor (Bay Trail)
- 2 DDR3L-1066/1333 SO-DIMM, up to 8GB
- Max. up to 6 lanes of PCIe
- 2 SATA-300
- 8 USB 2.0 and 1 USB 3.0
- TPM 1.2 supported

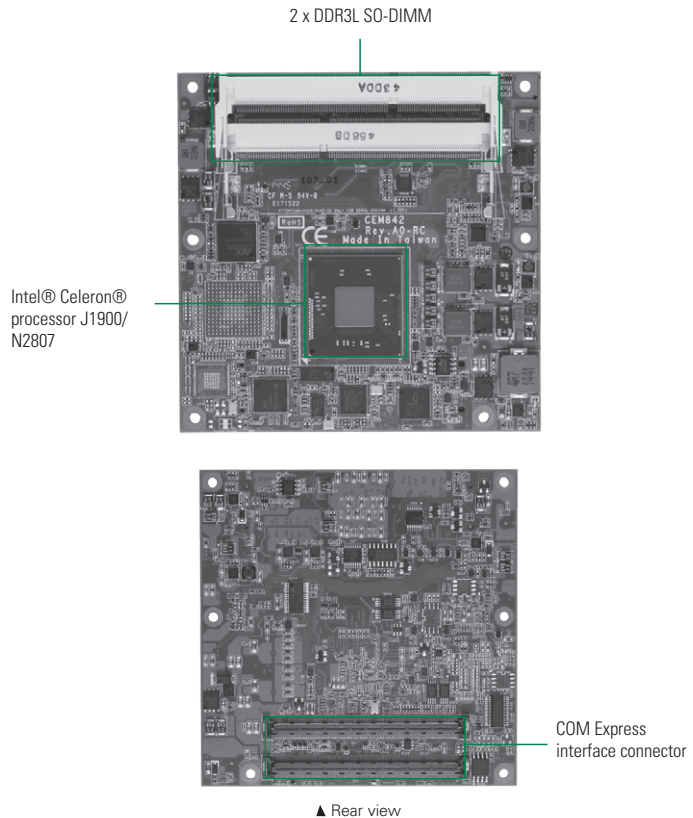


Core System

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|---------------------|--|
| CPU | Intel® Celeron® processor J1900 2 GHz or Celeron® N2807 1.58 GHz onboard |
| System Memory | 2 x 204-pin SO-DIMM DDR3L-1066/1333, up to 8GB |
| Chipset | SoC integrated |
| BIOS | AMI uEFI (Legacy free) |
| 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 (+32°F ~ +140°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|--|
| MIO | 1 x LPC interface 1 x SPI interface |
| SATA | 2 x SATA-300 |
| Hardware Monitoring | Yes |
| Ethernet | 1 port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i210AT |
| Audio | HD link interface to baseboard for Codec |
| USB | 8 x USB 2.0 1 x USB 3.0 |
| TPM | TPM 1.2 |
| SMBus | Yes |
| Digital I/O | 4 channels IN & 4 channels OUT |



Display

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

Packing List

Quick installation guide, user's manual/utility CD

Ordering Information

Standard

| | |
|--------------------------------------|--|
| CEM842PVG-N2807 (P/N: E38D842100) | COM Express Type 6 compact module with Intel® Celeron® N2807, DDI/VGA/LVDS, GbE LAN, USB 3.0 and TPM |
| CEM842PVG-J1900 (P/N: E38D842101) | COM Express Type 6 compact module with Intel® Celeron® J1900, DDI/VGA/LVDS, GbE LAN, USB 3.0 and TPM |

Optional Accessories

| | |
|-------------------------------|---|
| CEB94011 (P/N: E394011100) | ATX form factor Type 6 evaluation board |
| 5078D841100E | CEM841/2/3 heat spreader |
| 5078D842200E | CEM841/2/3 heat sink without fan |

Note: 5078D842200E has to be used with 5078D41100E

Block Diagram

