

# 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

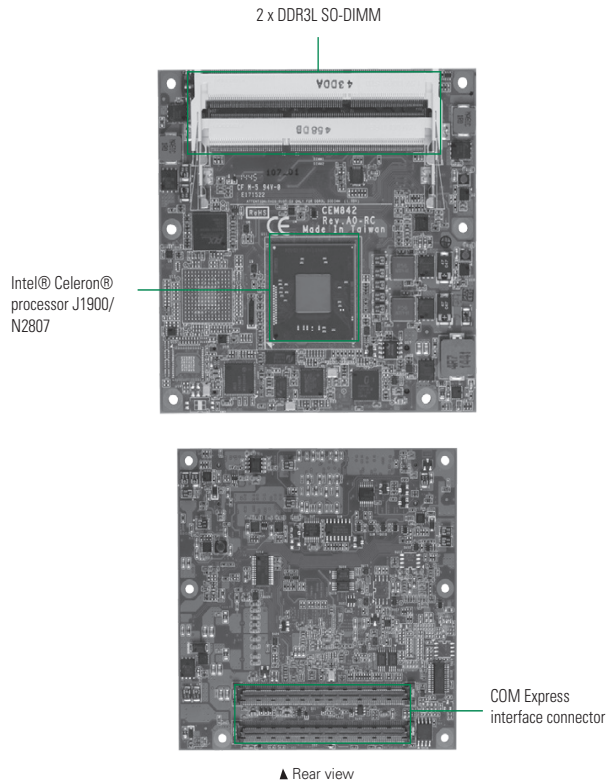


### Core System

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

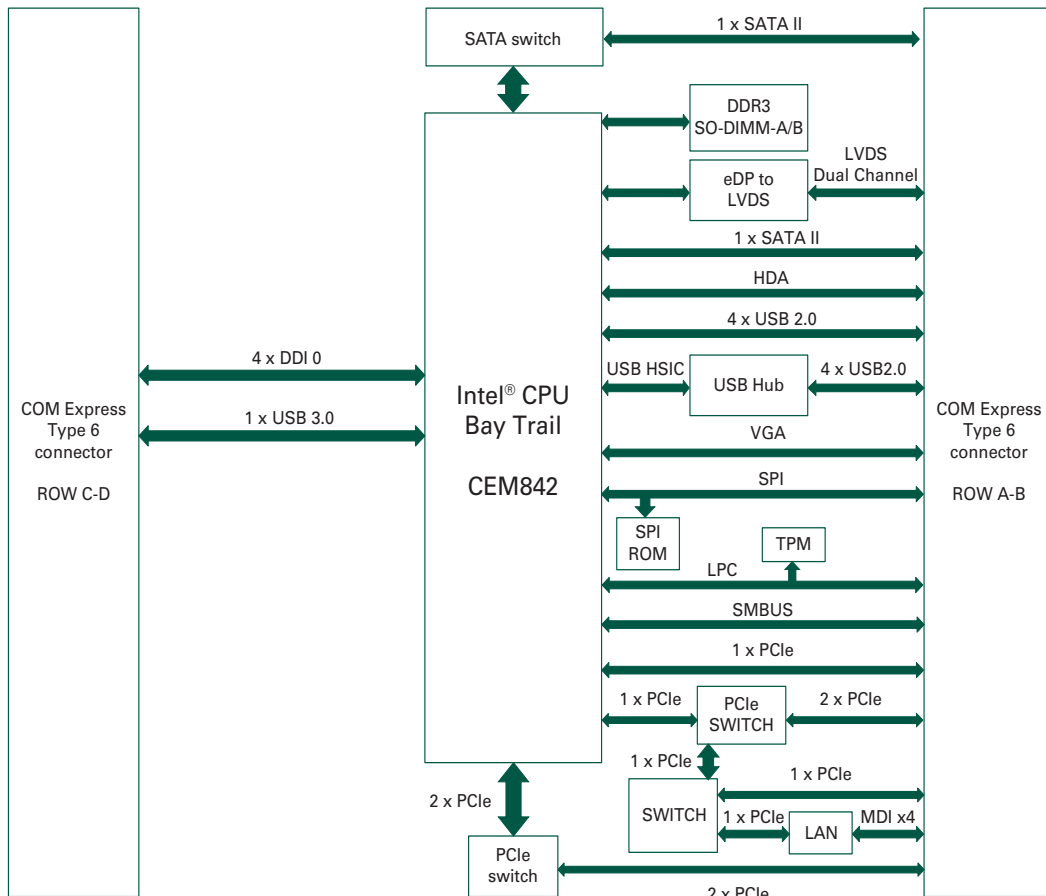
Standard	
CEM842PVG-N2807 (P/N: E38D842100)	COM Express Type 6 compact module with Intel® Celeron® N2807, DDI/VGA/LVDS, GbE LAN, USB 3.0 and TPM
CEM842PVG-J1900 (P/N: E38D842101)	COM Express Type 6 compact module with Intel® Celeron® J1900, DDI/VGA/LVDS, GbE LAN, USB 3.0 and TPM

### 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**



0
1
2
3
4
5
6
7



## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660