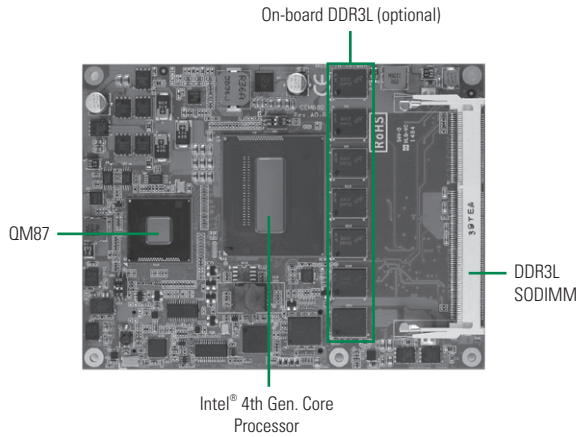


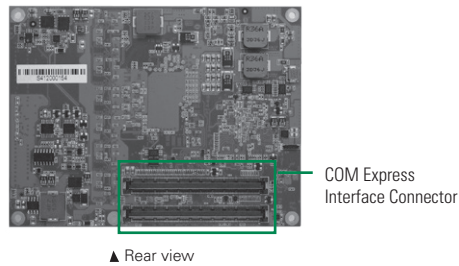
CEM880

4th Gen. Intel® Core™ COM Express Type 6 Module with Intel® QM87 PCH



Features

- 4th Generation Intel® Quad/ Dual Core™ i7/ i5/ i3/ Celeron® processors
- Intel® QM87 PCH
- On-board 4GB DDR3L (optional) and 1 SO-DIMM
- Max. up to 24 lanes of PCIe
- 4 SATA-600
- 4 USB 3.0
- TPM



System

CPU	4th Generation Intel® Core™ processors with i7-4700EQ (47W), i5-4422E (25W), i3-4110E (35W), Celeron® 2000E (37W)
System Memory	1st bank as on-board extended temperature DDR3L chips up to 4 GB (optional) 1 x 204-pin SO-DIMM supports DDR3L up to max. up to 8 GB
Chipset	Intel® QM87
BIOS	AMI uEFI with Intel® Active Management Technology 9.0 supported
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCIe x16 v3.0 (8GT/s) configurable supports up to 4 bus controller as (1 x16, 2 x8, 1 x 8+2 x4) 8 x PCIe x1 devices (7 x1 while internal MAC is connected)
Battery Lithium	N/A
Power Requirements	TBD
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
SATA	4 x SATA-600, support Intel® Rapid Start Technology Intel® Smart Response Technology
Hardware Monitoring	N/A
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® i217LM
Audio	HD link interface to baseboard for Codec
USB	8 x USB 2.0 and 4 x USB 3.0
TPM 1.2	ST for trusted platform
SMBus	Yes
Digital I/O	4 channels IN & 4 channels OUT

Display

Chipset	Intel® Gen 7.5 3D Graphics Intel® InTru™ 3D, Intel® Quick Sync Video 2.0, Intel® Clear Video HD Technology Gfx APIs - DX11, OCL1.1, OGL 3.1 3 independent displays
Memory Size	DVMT Gfx physical memory up to 256MB DVMT Gfx pre-allocated memory up to 1024MB
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single/dual channel 3 x DDI (SDVO, DP, HDMI, DVI)

Packing List

Quick installation guide, user's manual/utility CD

Ordering Information

Standard	
CEM880PVG-i7-4700EQ (ES) (P/N: E38D880100)	COM Express type 6 Module with Intel® Core™ i7-4700EQ 2.4 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM
CEM880PVG-i5-4422E (ES) (P/N: E38D880103)	COM Express type 6 Module with Intel® Core™ i5-4422E 1.8 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM
CEM880PVG-i3-4110E (ES) (P/N: E38D880104)	COM Express type 6 Module with Intel® Core™ i3-4110E 2.6 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM
CEM880PVG-CEL-2000E (ES) (P/N: E38D880105)	COM Express type 6 Module with Intel® Celeron® 2000E 2.2 GHz, VGA/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM

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>PC/104

Industrial
Mother-
boards

Slot
CPU
Cards

Accessories

Appendix