

CEM881

4th Gen. Intel® Core™ COM Express Type 6 Compact Module

Features

- Intel® Dual Core™ i7/ i5/i3/Celeron® processors
- On-board 4 GB DDR3L (optional) and SO-DIMM for another 8 GB
- Max. up to 4 lanes of PCIe
- 4 SATA-600
- 4 USB 2.0 and 4 USB 3.0 ports
- TPM

System

CPU	4th Generation Intel® Core™ processors with i7-4650U, i5-4300U, i3-4010U, Celeron® 2980U
System Memory	1st bank as on-board extended temperature non-ECC DDR3L chips up to 4 GB (optional) 2nd bank as non-ECC DDR3L SODIMM supports up to 8 GB
Chipset	Integrated in CPU
BIOS	AMI uEFI with Intel® Active Management Technology 9.0 supported
SSD	N/A
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	4 x PCIe x1 devices (3 x 1 while internal MAC is connected)
Battery Lithium	N/A
Power Requirements	TBD
Size	95 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 2 x TX/RX UARTs
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 i218LM
Audio	HD link interface to baseboard for Codec
USB	2 x USB 3.0 ports and 6 x USB 2.0 ports
TPM	ST for trusted platform
SMBus	Yes
Digital I/O	4 channels IN & 4 channels OUT

Display

Chipset	Intel® Gen 7.5 3D Graphics In-Tru 3D™, Intel® Quick Sync Video 2.0 , Intel® Clear Video HD Technology Gfx APIs - DX11, OCL1.1, OGL 3.1 3 independent displays
Display Interface	1 x LVDS; 18/24-bit single/dual channel 2 x DDI (SDVO, DP, HDMI, DVI)

Packing List

Quick installation guide, user's manual/utility CD

Ordering Information

Standard	
CEM881	COM Express Type 6 Compact Module with 4th Gen. Intel® Core™ i7/i5/i3/Celeron® ULT series, DP/LVDS, 10/100/1000Mbps Ethernet, USB 3.0 and TPM

SBC
Services
and Solutions

Systems
on
Modules

Embedded
SBCs
>EPIC

Embedded
SBCs
>3.5" Capa

Embedded
SBCs
>Nano-ITX

Embedded
SBCs
>Pico-ITX

Embedded
SBCs
>PC/104

Industrial
Mother-
boards

Slot
CPU
Cards

Accessories

Appendix