

CEM510

COM Express Type 6 Module with Intel® Xeon®/7th Gen Intel® Core™ i7/i5/i3 Processor and Intel® CM238/QM175/HM175

Features

- 7th gen Intel® Xeon® and Core™ i7/i5/i3 processors (Kabylake-H)
- Intel® CM238/QM175/HM175 chipset
- 2 DDR4-2133 SO-DIMM, up to 32GB ECC or non-ECC
- 1 x PCIe x16 and 8 x PCIe x1 Gen. 3
- 4 SATA-600 with RAID 0/1/5/10
- 4 USB 3.0 and 8 USB 2.0
- Intel® AMT 11.0 and TPM function supported
- AXView 2.0 intelligent remote management software

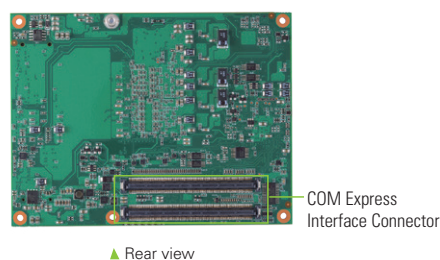
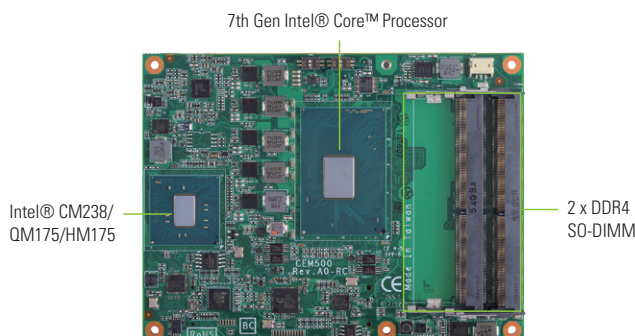


Core System

CPU	7th gen Intel® Xeon® and Core™ i7/i5/i3 processors (Kabylake-H)
System Memory	2 x DDR4-2133 SO-DIMM, up to 32GB
Chipset	Intel® CM238/QM175/HM175
BIOS	AMI uEFI with Intel® Active Management Technology 11.0 supported
SSD	N/A
Watchdog Timer	65536 levels, 0 ~ 65535 sec.
Expansion Interface	1 x PCIe x16 Gen 3.0 8 x PCIe x1 Gen 3.0
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB; AT: +12V
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
Vibration	3.5 Grms

I/O

MIO	1 x LPC interface 1 x SPI interface 1 x I ² C interface 2 x TX/RX serial interface
SATA	4 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Yes
Ethernet	1 port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i219LM
Audio	HD link interface to baseboard for Codec
USB	4 x USB 3.0 8 x USB 2.0
TPM	TPM 1.2
SMBus	Yes
Digital I/O	4 channels IN & 4 channels OUT
Smart Battery	Yes



Display

Chipset	Intel® Gen 9 HD Graphic Gfx APIs - DX11/12, OCL2.x, OGL 4.3/4.4 3 independent displays
Display Interface	1 x LVDS; 18/24-bit single/dual channel (optional with eDP) 3 x DDI (DP/HDMI/DVI), 1 x DDI optional w/VGA

Packing List

Quick installation guide, user's manual/utility CD

Ordering Information

Standard	
CEM510-E3-1505M v6+CM238 (P/N: E38D510100)	COM Express Type 6 module with Intel® Xeon® E3-1505MV6 w/ CM238, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM510-I3-7100E+CM238 (P/N: E38D510101)	COM Express Type 6 module with Intel® Core™ i3-7100E w/ CM238, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM510-I7-7820EQ+QM175 (P/N: E38D510102)	COM Express Type 6 module with Intel® Core™ i7-7820EQ w/ QM175, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM510-i5-7440EQ+QM175 (P/N: E38D510103)	COM Express Type 6 module with Intel® Core™ i5-7440EQ w/ QM175, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM510-I3-7100E+QM175 (P/N: E38D510104)	COM Express Type 6 module with Intel® Core™ i3-7100E w/ QM175, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM510-I3-7102E+HM175 (P/N: E38D510105)	COM Express Type 6 module with Intel® Core™ i3-7102E w/ HM175, DDI/LVDS, GbE LAN, USB 3.0 and TPM
Optional	
CEB94011 (P/N: E394011100)	CEB94011 COM Express Type 6 evaluation board
Heatsink (P/N: 5078D500500E)	CEM500 Heatsink w/ fan
Heatspreader (P/N: 5078D500400E)	CEM500 Heatspreader