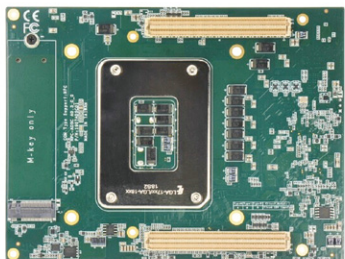
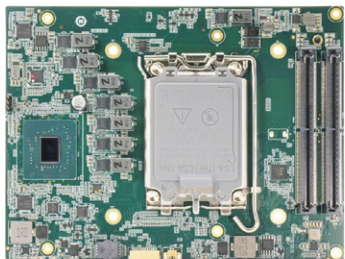


ACM-R680E1

New COM HPC Client Size C with 12th/13th Gen Intel® Core™ Processors



Features

- DDR5 4800 MHz, Dual Channel SODIMM x 2, up to 64GB
- USB 2.0 x 8, USB 3.2 x 6
- PCIe [x1] x 8, PCIe [x4] x 3, PEG [x16] x 1
- Intel® I226-LM 2.5GbE x 2
- M.2 2280 M-Key x 1
- COM HPC Client Type, Size C, 6.30" x 4.72" (160mm x 120mm)



Specification

System

CPU	13th Generation Intel® Core™ Processors: Intel® Core™ i9-13900E (24C/32T, 1.80 GHz, E-core 1.30 GHz, 65W) Intel® Core™ i9-13900 (24C/32T, 2.00 GHz, E-core 1.50 GHz, 65W) Intel® Core™ i7-13700E (16C/24T, 1.90 GHz, E-core 1.30 GHz, 65W) Intel® Core™ i5-13500E (14C/20T, 2.40 GHz, E-core 1.50 GHz, 65W)
Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2, up to 64GB(ECC)
Storage	1 x M.2 M-Key 2280, support NVMe
BIOS	AMI UEFI
Wake on LAN	Yes
Watch Dog	255 Levels
Security	TPM 2.0
Operating System	Windows® 10 (64-bit) Linux Ubuntu 20.04.1/Kernel 5.15

Power Supply

Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Consumption	Intel® Core™ i9-13900E, 7.13A @+12V
MTBF (Hours)	AT/ATX

Environmental and Mechanical

Dimension	6.30" x 4.72" (160mm x 120mm)
Weight	0.66 lb. (0.30Kg)
Mouting/Installation	Din Rail, Wall Mount, VESA
Operating Temp.	32°F ~ 140°F (0°C ~ 60°C)
Storage Temp.	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing

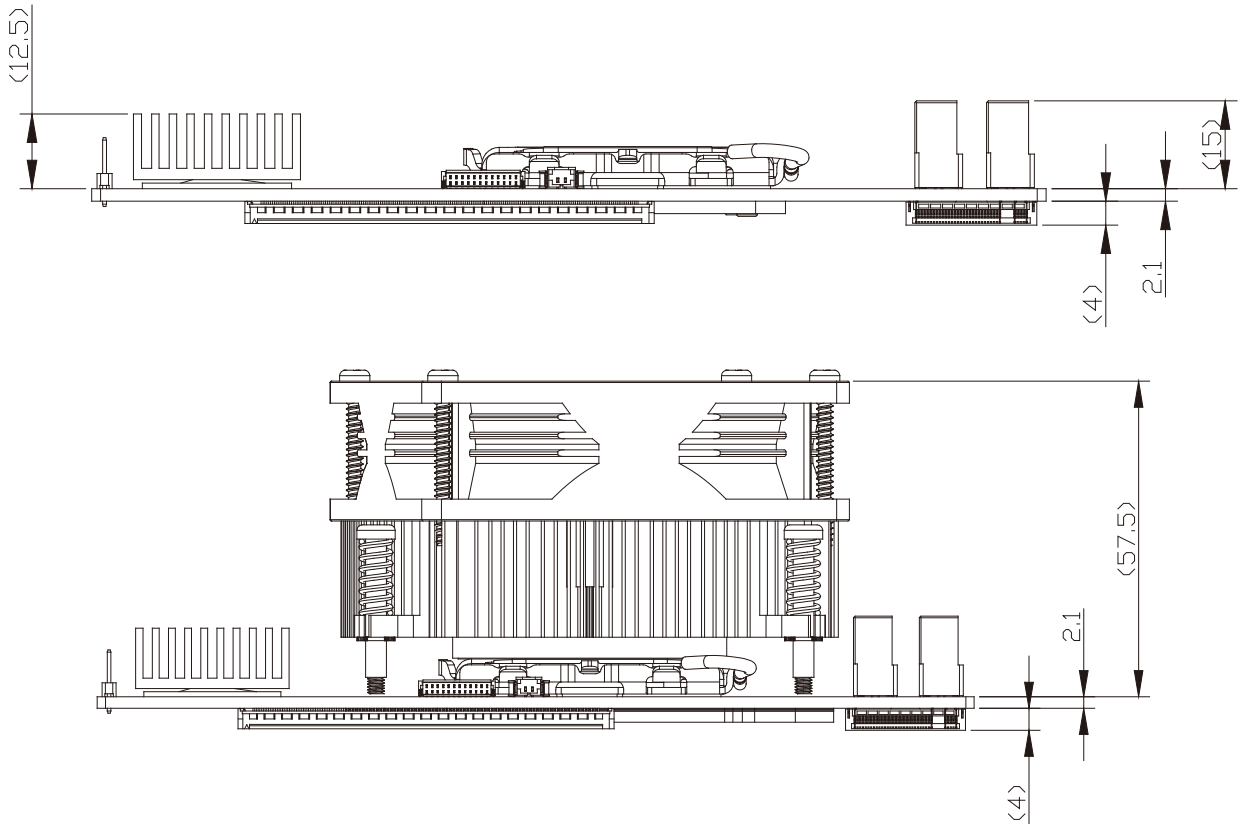
Certification

Regulations	CE, FCC Class A
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Interface

Serial Port	4-Wire UART x 2 (Tx/Rx)
HDD	SATA III x 2
Ethernet	Intel® I226-LM 2.5GbE x 2
USB	4 x USB 3.1, Type-A
Audio	High Definition Audio Interface
Graphics Controller	Intel® UHD Graphics 770
Display	4 Simultaneous Displays: eDP x 1, up to 3840 x 2160 @60Hz DDI x 3, up to 3840 x 2160 @144Hz
SMBus/I2C	I2C x 2, SMBus x 1
GPIO	12 bit
Expansion	PEG 5.0 [x16] x 1 PCIe 4.0 [x4] x 3 PCIe 3.0 [x1] x 8 eSPI x 1 LPC x 1

Dimensions



Packing List

- ACM-R680E1 x 1
- Cooler.90mm x 90mm x 50mm x1

Ordering Information

- ACM-R680E1 COM HPC Client Type, Size C

Optional Accessories

- Carrier Board Carrier board for COM HPC Client Type, Size C