



## Box-PC

# CamCollect® 9160

- Supporting Intel® 13<sup>th</sup>/12<sup>th</sup>-Gen Alder Lake Core™ CPU (LGA1700 socket, 35W/ 65W TDP)
- Up to 64GB DDR5 4800 SDRAM
- Support NVIDIA® RTX series GPU card up to 130W TDP
- Fanless



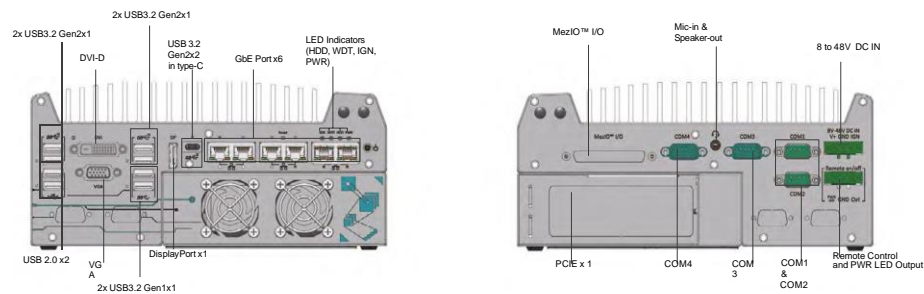
**\*Attention barebone system:**

CPU, RAM, HDDs / SSDs, operating systems and expansion modules can be found in the catalog under "System components and accessories": [https://downloads.aprotech.de/cms/catalogue/APROtech\\_catalogue.pdf](https://downloads.aprotech.de/cms/catalogue/APROtech_catalogue.pdf)  
 You will receive a link to the catalog with prices from your sales contact: <https://aprotech.de/en>

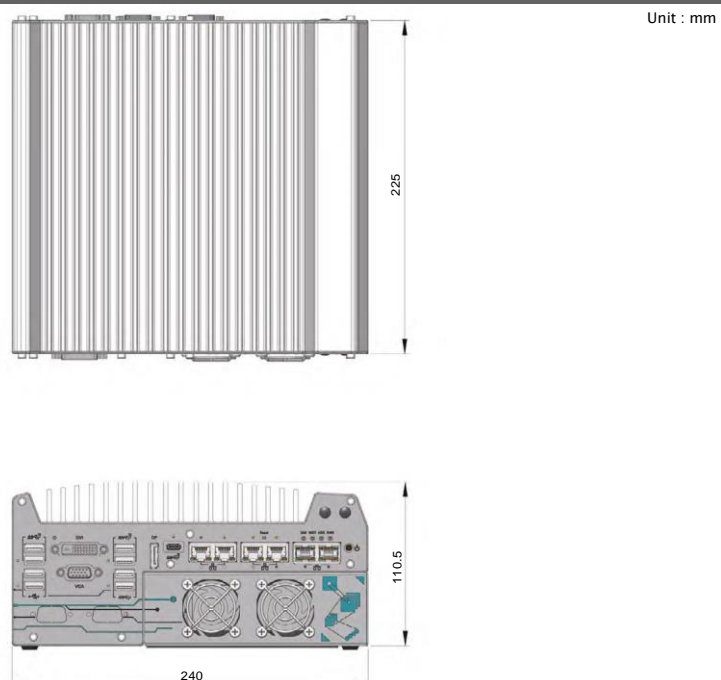
<b>CPU*</b>	Supporting Intel® 13 <sup>th</sup> /12 <sup>th</sup> -Gen Alder Lake Core™ CPU (LGA1700 socket, 35W/ 65W TDP)
<b>Chipset</b>	Intel® Q670E Platform Controller Hub
<b>RAM*</b>	Up to 64GB DDR5 4800 SDRAM (two SODIMM slots)
<b>Storage interface*</b>	2x internal SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/ 1 1x M.2 2280 M key socket (PCIe Gen4 x4) for NVMe SSD
<b>Ports</b>	5x 2.5G Ethernet by I225-IT and 1x Gigabit Ethernet by I219-LM with screw-lock Optional IEEE 802.3at PoE+ PSE for Port 3 ~ Port 6. 100W total power budget 1x USB 3.2 Gen2x2 (20 Gbps) port in type-C connector with screwlock 4x USB 3.2 Gen2x1 (10 Gbps) ports in type-A connectors 2x USB 3.2 Gen1x1 (5 Gbps) ports in type-A connectors 2x USB 2.0 ports 1x VGA connector, supporting 1920 x 1200 resolution 1x DVI-D connector, supporting 1920 x 1200 resolution 1x DisplayPort connector, supporting 4096 x 2304 resolution 2x software-programmable RS-232/ 422/ 485 ports (COM1/COM2) 2x RS-232 ports (COM3/COM4) 1x 3.5 mm jack for mic-in and speaker-out
<b>Expanded interface*</b>	1x PCIe x16 slot@Gen3, 16-lanes PCIe signals in Cassette for installing an NVIDIA® graphics card up to 130W TDP (Max. graphics card dimension is 188 mm (L) x 131 mm (W), dual slot allocation) 1x full-size mini-PCI Express socket 1x M.2 3042/3052 B key socket with SIM slot for M.2 4G/ 5G module
<b>MezIO™</b>	1x MezIO™ expansion port
<b>Cooling system</b>	Passive, fanless
<b>Power input</b>	1x 3-pin pluggable terminal block for 8V to 48V DC input 1x 3-pin pluggable terminal block for remote control and PWR LED output
<b>Power consumption</b>	TBA



<b>Operating temperature</b>	With 35W CPU and 130W GPU -25° C to 60° C** With 65W CPU and 130W GPU -25° C to 60° C**/** (configured as 35W TDP) -25° C to 50° C**/** (configured as 65W TDP)
<b>Storage temperature</b>	-40° to 85° C
<b>Storage humidity</b>	10% to 90%, non-condensing
<b>Vibration</b>	Operating, MIL-STD-810G, Method 514.6, Category 4 (with optional damping bracket) (pending)
<b>Shock</b>	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II (with optional damping bracket) (pending)
<b>Certificate</b>	CE/FCC Class A, according to EN 55032 & EN 55035 (pending)
<b>Protection class</b>	IP20
<b>Mounting</b>	Wall-mount ; option: damping bracket
<b>Operating system</b>	Option: Microsoft Windows® 10, Fedora 29, Ubuntu 16.04.5 LTS & Ubuntu 18.04.0 LTS
<b>Dimensions / mm</b>	240 x 225 x 110.5
<b>Weight / kg</b>	3.89
<b>Scope of delivery</b>	3-pin pluggable terminal block; wall mounting kit; driver CD



## Dimensions



## Order Information

<b>CamCollect® 9160, Barebone</b>	660109
<b>CamCollect® 9160, Barebone - 5x 2.5GigE, 1x GigE</b>	660109.1
<b>CamCollect® 9160, Barebone - 5x 2.5GigE, 1x GigE [4x w/PoE+]</b>	660109.2
Option 280W AC/DC power adapter 24V/11.67A; 16AWG/100cm; cord end terminals for terminal block, operating temperature : -30°C to 60°C	on request
Option 600W AC/DC power adapter 24V/25A; cord end terminals for terminal block, operating temperature : -20°C to 70°C	on request
Option damping brackets assembly	on request

### \*Attention barebone system:

CPU, RAM, HDDs / SSDs, operating systems and expansion modules can be found in the catalog under "System components and accessories": [https://downloads.aprotech.de/cms/catalogue/APROtech\\_catalogue.pdf](https://downloads.aprotech.de/cms/catalogue/APROtech_catalogue.pdf)  
You will receive a link to the catalog with prices from your sales contact: <https://aprotech.de/en>

\* Due to I225-IT specification limitation, for systems running 2.5G Ethernet link speeds, please limit the operating temperature to 60°C.

\*\* For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.

\*\*\* For CPU operating at 65W mode, the highest operating temperature shall be limited to 50°C and thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to allow higher operating temperature.