

Compact medical box computer with Intel® 8th Processor

Extended
Temperature
+85°C
-40°C

CPU Full Speed



NVIDIA

COMPACT MEDICAL BOX COMPUTER

- Intel® i7-8700 Processor
- 2 x GbE LAN ports (Intel® i219LM and Intel® i211AT)
- 3 x USB3.0 ; 1 x USB 3.1 type A
- 1 x HDMI (1 x GTX 710 by PCIe x 16 slot) ; 1 x VGA ; 1 x DVI-D
- Serial Port : 1 x COM(RS232)

Intel® i7-8700 Processor

The 8th generation Intel® Core™, Pentium® and Celeron® processor families (Coffee Lake S) introduce the first 6-core processors for performance-demanding applications. These processors are



manufactured on Intel's most up-to-date and optimized 14 nm technology. When paired with an Intel® 300 series chipset, these processors offer even greater CPU and graphics performance as compared to the previous generation and introduce native USB 3.1 Gen2 (10Gb/s) support. The S-series of processors enables more manufacturing flexibility to match performance, features, and price to IoT and other applications. These processors offer thermal design power (TDP) options of 65W and 35W to fit specific designs configurations with performance and low-power requirements. The S-series processors are ideally suited for applications like gaming, content creation, virtual reality, transactional retail terminals, digital security systems, and health care.



Performance

Multiple offerings for scalable performance, enhanced performance over previous generation with up to 6 cores



Immersive Graphics and Media performance

9th generation graphics engine, fast video acceleration, 3 independent 4K Ultra HD displays, extensive media codec library, HDMI 2.0/HDCP 2.2 (w/LSPCON)



Improved I/O Capability

Up to 30 High-Speed I/O lanes on PCH, integrated USB-C / USB 3.1 Gen2 (10Gb/S)



Enhanced OS Offering

Windows* 10 Enterprise & IOT Enterprise (64b), Yocto Project*, Wind River Linux*, VxWorks*



Enhanced Security Features

Intel Software Guard eXtensions (SGX) 1.0, Intel® Trusted Execution Engine 3.0, Intel® Platform Trust Technology

NVIDIA GEFORCE GT 710

NVIDIA® PureVideo® HD Technology

The combination of high-definition video decode acceleration and post-processing, NVIDIA® PureVideo® HD Technology delivers stunning picture clarity, smooth video, accurate color, and precise image scaling for movies and video.

TrueHD and DTS-HD Audio Bitstreaming

Full support for TrueHD and DTS-HD advanced lossless multi-channel HD audio codecs brings the rich sound of the master recording to your living room.



GeForce Experience™

The easiest way to optimize your games and keep your drivers up to date, The GeForce Experience application automatically notifies you of new driver releases from NVIDIA. With a single click, you'll be able to update the driver directly, without leaving your desktop.

NVIDIA PhysX® Technology

Full support for NVIDIA PhysX technology enables a totally new class of physical gaming interaction for a more dynamic and realistic experience.

NVIDIA Adaptive Vertical Sync

Nothing is more distracting than framerate stuttering and screen tearing. The first tends to occur when framerates are low, the second when framerates are high. Adaptive VSync is a smarter way to render frames. At high framerates, VSync is enabled to eliminate tearing. At low frame rates, it's disabled to minimize stuttering.

Anti-Aliasing Mode: NVIDIA FXAA™

Anti-aliasing smooths out "jaggies" (jagged edges) but can be demanding on frame rates. Fast Approximate Anti-Aliasing (FXAA) is a new anti-aliasing technology that produces beautiful, smooth lines with minimal performance impact. And with Kepler-based GPUs, you can enable FXAA in hundreds of game titles through the NVIDIA Control Panel.

Specifications

SYSTEM

CPU	Intel® Core™ Coffee Lake I7-8700(6Core/12MB/12T/up to 4.6GHz/65W)
Memory type	Dual Channel DDR4 2666/2400 MHz, 2 x SO-DIMMs , up to 32G
Chipset	Intel® Q370 Express Chipset
Storage	1 x 512G SSD 3D-TLC

FRONT I/O

LAN	2 x GbE LAN ports (Intel® i219LM and Intel® i211AT)
USB	3 x USB3.0 ; 1 x USB 3.1 type A
Display	1 x HDMI (1 x GTX 710 by PCIe x 16 slot) ; 1 x VGA ; 1 x DVI-D
Serial Port	1 x COM(RS232)
Audio	3 x Audio jacks (Line in, Line out, Mic in)
Power Supply	Flex ATX 220W 100~240VAC

REAR I/O

Power Button	1 x Power button (LED on button)
Indicator	1 x HDD LED
USB	4 x USB 2.0

EXPANSION SLOTS

PCIe	1 x PCIe x16 (Gen3 x16 bus) slot
M.2	1 x M.2 2230 E Key slot ; 1 x M.2 Slot 2242/2280

OS SUPPORT LIST

Windows	Windows 10 (x64)
Linux	Ubuntu1 18.04

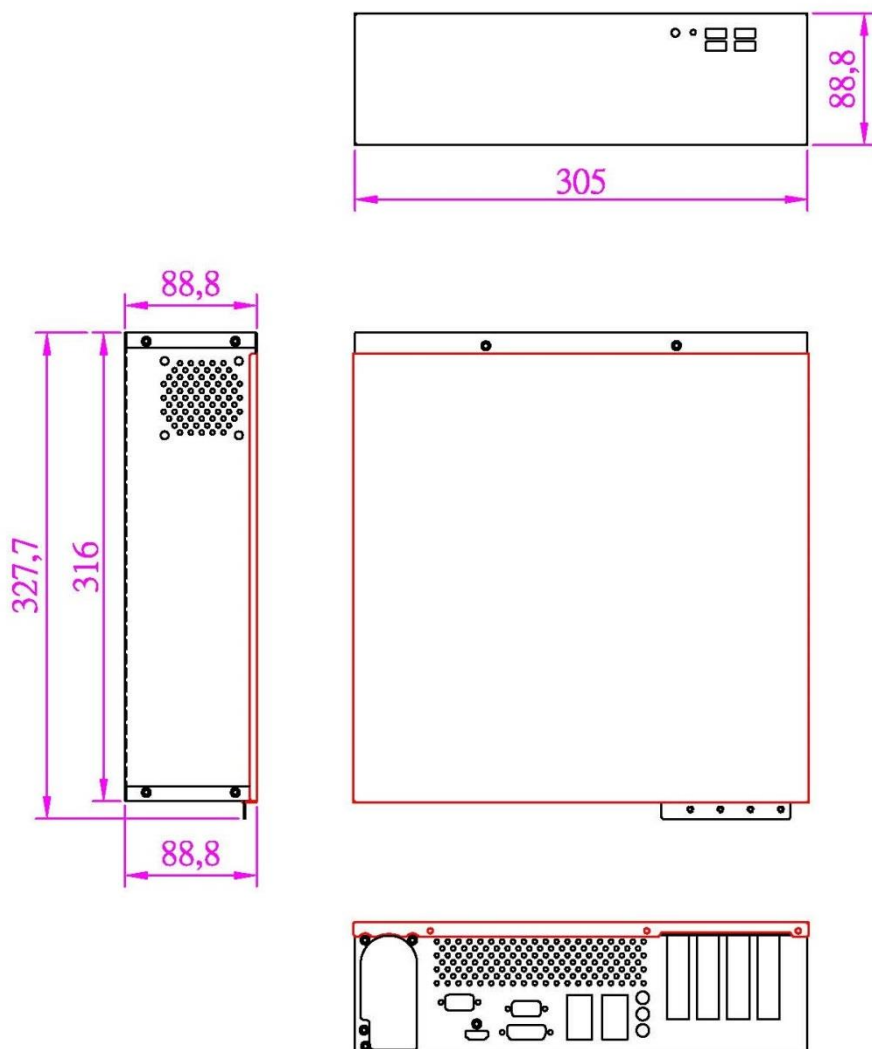
MECHANICAL

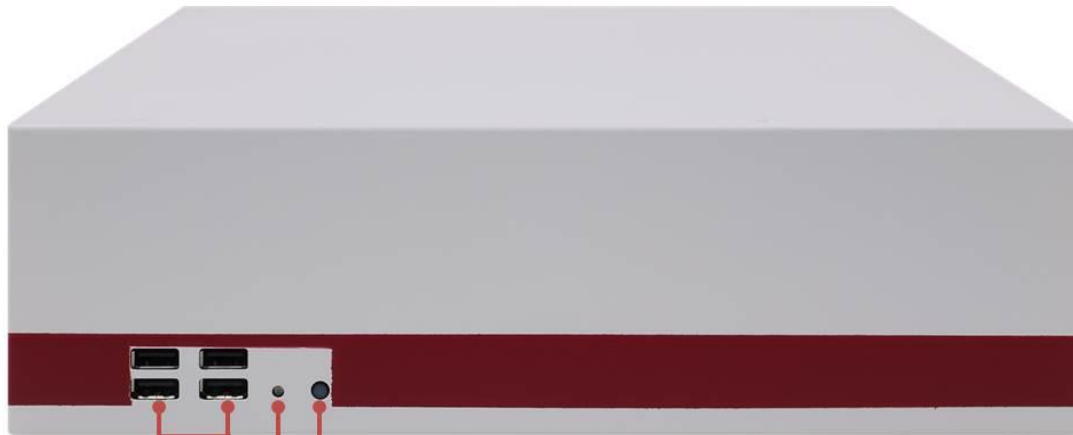
Dimension	305mm x 316mm x 88.8mm
Operating Temp.	-20°C to 60°C
Storage Temp.	-20°C to 80°C
Relative Humidity	10% to 90%, non-condensing
System Design	With Fan computer

Ordering Information

PER337 , Compact medical box computer with Intel® 8th Processor, Dual Channel DDR4 2666/2400 MHz, 2 x SO-DIMMs , up to 32G, 1 x 512G SSD 3D-TLC, 2 x GbE LAN ports (Intel® i219LM and Intel® i211AT), 3 x USB3.0 ; 1 x USB 3.1 type A, 1 x HDMI (1 x GTX 710 by PCIe x 16 slot) ; 1 x VGA ; 1 x DVI-D, 1 x COM(RS232), 3 x Audio jacks (Line in, Line out, Mic in), Flex ATX 220W 100~240V AC

Appearance & Dimension

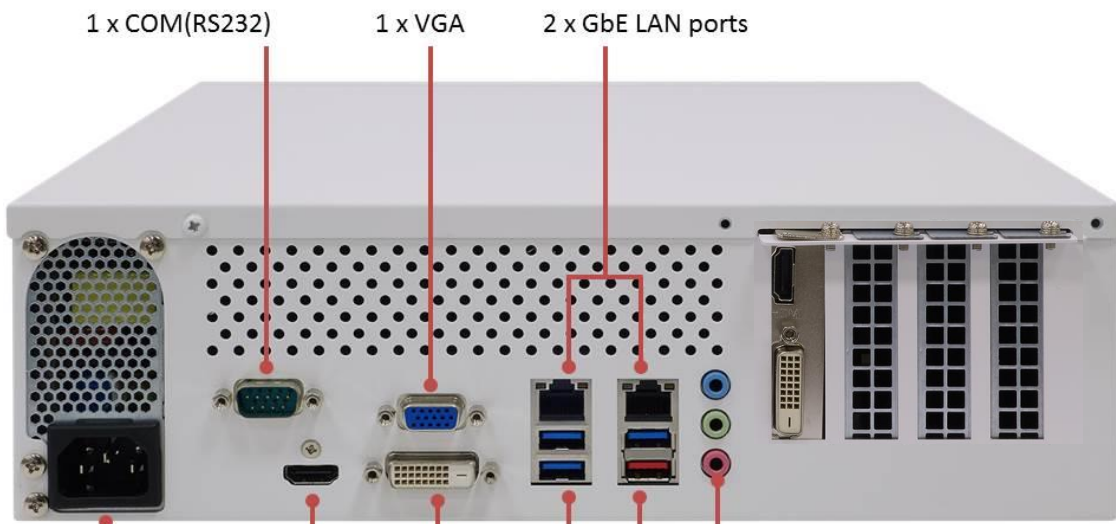




4 x USB 2.0

1 x Power button (LED on bottom)

1 x HDD LED



1 x COM(RS232)

1 x VGA

2 x GbE LAN ports

Flex ATX 220W
100~240V AC

1 x HDMI

1 x DVI-D

3 x USB3.0
1 x USB 3.1 type A

3 x Audio jacks
(Line in, Line out, Mic in)