

Overview

The Darveen DIC-427-Q670 is a high-performance 4U rack mount system, which can be equipped with Intel® 12th/13th/14th generation Core™ i3/i5/i7/i9 processors. It has strong performance and can handle it easily. It comes with rich peripheral interfaces, including 2 x LAN, 8 x USB 3.0, 5 x USB 2.0, 6 x COM interfaces, etc. At the same time, it supports expansion with 2 x PCIe x16, 4 x PCIe x4, and 1 x PCI slots. The built-in front and rear fan cooling design ensures the machine operates continuously for 24 hours, making it highly favored by users in the industrial application field.

Features

- 4U Rack Mount System Supporting Intel® 12th/13th/14th Generation Core™ i3/i5/i7/i9 CPU
- Supports Intel® Q670 Chipset
- Supports Intel® 12th/13th/14th Generation Core™ i3/i5/i7 /i9 CPU TDP 125W MAX
- 2 x Intel GbE LAN, 8 x USB 3.0, 5 x USB 2.0, 6 x COM
- 1 x VGA, 1 x HDMI, 1 x DVI
- 2 x PCIe x16, 4 x PCIe x4, 1 x PCI
- Front panel 1 x 12025 fan, rear window 2 x 8025 fan



I/O Interfaces



Specifications

System	
CPU	Intel® 12th/13th/14th Generation Core™ i3/i5/i7/i9 CPU LGA1700
CPU TDP	125W MAX
Chipset	Intel® Alder Lake PCH-S, Q670, TDP 6W
Memory	DDR4-3200MHz, 4 x Non-ECC U-DIMM Slot, Up to 128GB
Storage	8 x 3.5" disk drive, 2 x 5.25" optical drive, 1 x 3.5" floppy drive 1 x M.2 Key-M Slot (PCIe x 4 GEN4 NVMe/SATA SSD Auto Detect, 2242/2280)
TPM	SLB 9670VQ2.0, TPM2.0 (Not onboard by default), Support Intel PTT Default
BIOS	AMI UEFI BIOS (Support Watchdog Timer)
I/O Ports	
USB	6 x USB3.0 (Rear IO)/2 x USB2.0 (Front IO) 2 x USB3.0 (Internal) 1 x USB2.0 (vertical TYPE-A, Internal) 2 x USB2.0 (Internal)
Serial	1 x RS232 ((Rear IO) 3 x RS232 (Internal) 1 x RS232/RS422/RS485 (Internal) 1 x RS232/RS485 (Internal)
Ethernet	1 x Intel I219-V/1 x Intel I225-V 2.5G
Display	1 x DVI-D (DVI-I)/1 x HDMI/1 x VGA
SMBUS	1 x SMBUS Header
SATAIII	Supports RST RAID 0,1,5,10, 4 x SATA3.0 7P Upright Connector
GPIO	8 x GPIO (Internal)
PS/2	1 x PS/2 Connector (Keyboard & Mouse)
Expansion Slot	
PCI/PCIe	2 x PCI-E 16x Slot (PCIe 8X, GEN4) 3 x PCI-E 4x Slot (PCIe 4X, GEN4) 1 x PCI-E 4x Slot (PCIe 4x, GEN3) 1 x PCI Slot
M.2	1 x M.2 Key-E Slot (PCIe+USB2.0+ CNVi, support WIFI +Bluetooth Module, 2230)
Audio	
Audio	Realtek Audio HDA Codec 1 x Front Audio Header (Line-Out + MIC) 1 x SPDIF Out Header 1 x Line-out + Line-in + MIC 3.5mm Jack
Power	
Button	Yes
DC Input	Standard ATX power supply
Power Mode	AT/ATX
Operating System	
Windows	Windows10/11
Linux	Ubuntu
Mechanical	
Dimensions (W x D x H)	427 x 450 x 177mm (16.81 x 17.72 x 6.97 inches)
Weight (N.W.)	11.3 KG (24.91 lbs)
Mounting	Rackmount
Environment	
Operating Temperature	0~50°C (32~122°F)
Storage Temperature	-20~60°C (-4~140°F)
Relative Humidity	10%~95% @ 40°C (104°F), non-condensing
Certification	
EMC	CE, FCC Class A

Dimensions

