Sahasra

Desktop Motherboard

SE-Q670M-D4_2H1DV





*Images may differ in appearance from the actual product.

Product Brief:

- Supports 12th/13th/14th Gen Intel® Core™ Processors (LGA1700)
- Supports Intel® vPro™ Technology
- Supports Intel® Core™ i9/ i7/ i5/ i3/ Pentium® /Celeron® Processors Max. 125W TDP.
- Micro ATX Form Factor: 24.4*24.4cm
- Supports 4 x DDR4 3600MHz upto 128GB
- 1 x Ultra M.2 Socket (M2_1, Key M), supports type 2242/2280 PCIe Gen4x4 (32 Gb/s) modes
- 1 x Ultra M.2 Socket (M2_2, Key M), supports type 2242/2280 SATA3 6.0 Gb/s & PCIe Gen3x4 (32 Gb/s) modes
- 4 x SATA3 6.0 Gb/s Connectors
- 1 x DisplayPort1.2 & 2 x HDMI1.4 & 1 x VGA
- Realtek ALC897 7.1 CH HD Audio Code (1 x Line in + Front Speaker + Microphone)
- 1 x PCIe 4.0 x16 For CPU & 2 x PCIe 3.0 x1 For PCH
- 3 x USB3.2 Gen1 5G & 2 x USB2.0 & 1 x Type-C Gen1

Make In India

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Detail Specifications

Platform	Form Factor	Micro ATX Form Factor: 24.4 x 24.4cm
Processor System	CPU	LGA1700 Socket for Intel® Core™ i9/ i7/ i5/ i3/ Pentium® /Celeron® Processors Max. 125W TDP. Supports Intel 12th./13th/14th Gen Processors
	CHIPSET	Intel® Q670 chipset & supports Intel® vPro™ Technology
Memory	Technology	Up to DDR4 3600 MHz
	Max.	128GB(32GB per U-DIMM)
	Socket	4 x U-DIMM
Display	HDMI	2 x HDMI1.4
	VGA	1
	DP	1 x Display Port 1.2
Expansion Slot	PCIe x16	1 x PCIe 4.0 x16 For CPU
	PCIe x4	2 x PCIe 3.0 x1 For PCH
	M.2	1 x Ultra M.2 Socket (M2_1, Key M), supports type 2242/2280 PCIe Gen4x4 (32 Gb/s) modes
		1 x Ultra M.2 Socket (M2_2, Key M), supports type 2242/2280 SATA3 6.0 Gb/s & PCIe Gen3x4 (32 Gb/s) modes
Ethernet	Speed	10/100/1000Mbps
	Controller	Intel I219V-LM (Support VPRO)
	Connector	1 x RJ-45
Wifi	Connector	1 x M.2 Socket 1 with E key Type 2230 connector for the wireless
Audio	Codec	Realtek ALC897 7.1 CH HD Audio Code
	Connector	1 x Line in + Front Speaker + Microphone
Storage	SATA port	4 x SATA Gen 3.0, up to 6Gb/s; Supports RAID functionality
Rear I/O	HDMI	2
	VGA	1
	DP	1
	USB 3.2	3 x USB 3.2 Gen1 5G
	USB 2.0	2
	Ethernet	1 x RJ45 Gigabit LAN 10/100/1000M/2.5 Gbps)
	PS/2 Mouse/Keyboard Port	1
	Audio jack	1 x Line in + Front Speaker + Microphone
	Type-C Gen1	1
Connector	USB2.0	1 x USB 2.0 Headers (Support 4 USB 2.0 ports)(Supports ESD Protection)
	USB3.2	1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) (Supports ESD
	COM Port	1 x COM Port Header
	CPU Fan Connector	1 x CPU_Fan Connector (4-pin) Header
	Chassis Fan Header	3 x Cha_Fan Connector (4-pin) Header
	Chassis Intrusion Header	1
	Front Panel Audio Header (AAFP)	1 x Front Panel Audio Connector Header
	BUZZER	1
	Power Connector	1 x 8-pin ATX Power Connector, 1 x 24-pin ATX Power Connector
OS		Supports Windows 10 64Bit & Windows 11 64bit, Linux 24.04

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CPU COMPATIBILITY LIST

Sr. No.	Process Name	Core	TDP	Max Turbo Frequency	Cache Memory	Processor Graphics
Intel® Core™ i9 Processors (14th gen)						
1	Intel® Core™ i9 processor 14900T (36M Cache, up to 5.50 GHz)	24	125W	5.5 GHz	36 MB Intel® Smart Cache	Intel® UHD Graphics 770
2	Intel® Core™ i9 processor 14900KF (36M Cache, up to 6.00 GHz)	24	125W	6 GHz	36 MB Intel® Smart Cache	
3	Intel® Core™ i9 processor 14900K (36M Cache, up to 6.00 GHz)	24	125W	6 GHz	36 MB Intel® Smart Cache	Intel® UHD Graphics 770
4	Intel® Core™ i9 processor 14900F (36M Cache, up to 5.80 GHz)	24	65W	5.8 GHz	36 MB Intel® Smart Cache	
5	Intel® Core™ i9 processor 14900 (36M Cache, up to 5.80 GHz)	24	65W	5.8 GHz	36 MB Intel® Smart Cache	Intel® UHD Graphics 770
Intel® Core™ i7 Processors (14th gen)						
1	Intel® Core™ i7 processor 14700F (33M Cache, up to 5.40 GHz)	20	65W	5.4 GHz	33 MB Intel® Smart Cache	
2	Intel® Core™ i7 processor 14700T (33M Cache, up to 5.20 GHz)	20	35W	5.2 GHz	33 MB Intel® Smart Cache	Intel® UHD Graphics 770
3	Intel® Core™ i7 processor 14700 (33M Cache, up to 5.40 GHz)	20	65W	5.4 GHz	33 MB Intel® Smart Cache	Intel® UHD Graphics 770
4	Intel® Core™ i7 processor 14790F (36M Cache, up to 5.40 GHz)	16	65W	5.4 GHz	36 MB Intel® Smart Cache	
5	Intel® Core™ i7 processor 14700KF (33M Cache, up to 5.60 GHz)	20	125W	5.6 GHz	33 MB Intel® Smart Cache	
6	Intel® Core™ i7 processor 14700K (33M Cache, up to 5.60 GHz)	20	125W	5.6 GHz	33 MB Intel® Smart Cache	Intel® UHD Graphics 770
Intel® Core™ i5 Processors (14th gen)						
1	Intel® Core™ i5 processor 14400 (20M Cache, up to 4.70 GHz)	10	65W	4.7 GHz	20 MB Intel® Smart Cache	Intel® UHD Graphics 730
2	Intel® Core™ i5 processor 14600 (24M Cache, up to 5.20 GHz)	14	65W	5.2 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
3	Intel® Core™ i5 processor 14490F (24M Cache, up to 4.90 GHz)	10	65W	4.9 GHz	24 MB Intel® Smart Cache	
4	Intel® Core™ i5 processor 14400T (20M Cache, up to 4.50 GHz)	10	65W	4.5 GHz	20 MB Intel® Smart Cache	Intel® UHD Graphics 730
5	Intel® Core™ i5 processor 14400F (20M Cache, up to 4.70 GHz)	10	65W	4.7 GHz	20 MB Intel® Smart Cache	
6	Intel® Core™ i5 processor 14500 (24M Cache, up to 5.00 GHz)	14	65W	5 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
7	Intel® Core™ i5 processor 14600T (24M Cache, up to 5.10 GHz)	14	35W	5.1 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
8	Intel® Core™ i5 processor 14500T (24M Cache, up to 4.80 GHz)	14	35W	4.8 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
9	Intel® Core™ i5 processor 14600K (24M Cache, up to 5.30 GHz)	14	125W	5.3 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
10	Intel® Core™ i5 processor 14600KF (24M Cache, up to 5.30 GHz)	14	125W	5.3 GHz	24 MB Intel® Smart Cache	
Intel® Core™ i3 Processors (14th gen)						
1	Intel® Core™ i3 processor 14100F (12M Cache, up to 4.70 GHz)	4	58W	4.7 GHz	12 MB Intel® Smart Cache	
2	Intel® Core™ i3 processor 14100 (12M Cache, up to 4.70 GHz)	4	60W	4.7 GHz	12 MB Intel® Smart Cache	Intel® UHD Graphics 730
3	Intel® Core™ i3 processor 14100T (12M Cache, up to 4.40 GHz)	4	35W	4.4 GHz	12 MB Intel® Smart Cache	Intel® UHD Graphics 730
13th Generation Intel® Core™ i9 Processors						
1	Intel® Core™ i9-13900F Processor (36M Cache, up to 5.60 GHz)	24	65W	5.60 GHz	36 MB Intel® Smart Cache	
2	Intel® Core™ i9-13900T Processor (36M Cache, up to 5.30 GHz)	24	35W	5.30 GHz	36 MB Intel® Smart Cache	Intel® UHD Graphics 770
3	Intel® Core™ i9-13900 Processor (36M Cache, up to 5.60 GHz)	24	65W	5.60 GHz	36 MB Intel® Smart Cache	Intel® UHD Graphics 770
4	Intel® Core™ i9-13900KF Processor (36M Cache, up to 5.80 GHz)	24	125W	5.8 GHz	36 MB Intel® Smart Cache	
13th Generation Intel® Core™ i7 Processors						
1	Intel® Core™ i7-13790F Processor (33M Cache, up to 5.20 GHz)	16	65W	5.20 GHz	33 MB Intel® Smart Cache	
2	Intel® Core™ i7-13700 Processor (30M Cache, up to 5.20 GHz)	16	65W	5.20 GHz	30 MB Intel® Smart Cache	Intel® UHD Graphics 770
3	Intel® Core™ i7-13700F Processor (30M Cache, up to 5.20 GHz)	16	65W	5.20 GHz	30 MB Intel® Smart Cache	
4	Intel® Core™ i7-13700T Processor (30M Cache, up to 4.90 GHz)	16	35W	4.90 GHz	30 MB Intel® Smart Cache	Intel® UHD Graphics 770
5	Intel® Core™ i7-13700KF Processor (30M Cache, up to 5.40 GHz)	16	125W	5.40 GHz	30 MB Intel® Smart Cache	
6	Intel® Core™ i7-13700K Processor (30M Cache, up to 5.40 GHz)	16	125W	5.40 GHz	30 MB Intel® Smart Cache	Intel® UHD Graphics 770
13th Generation Intel® Core™ i5 Processors						
1	Intel® Core™ i5-13490F Processor (24M Cache, up to 4.80 GHz)	10	65W	4.80 GHz	24 MB Intel® Smart Cache	
2	Intel® Core™ i5-13500 Processor (24M Cache, up to 4.80 GHz)	14	65W	4.80 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
3	Intel® Core™ i5-13400F Processor (20M Cache, up to 4.60 GHz)	10	65W	4.60 GHz	20 MB Intel® Smart Cache	
4	Intel® Core™ i5-13600T Processor (24M Cache, up to 4.80 GHz)	14	35W	4.8 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
5	Intel® Core™ i5-13600 Processor (24M Cache, up to 5.00 GHz)	14	65W	5 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
6	Intel® Core™ i5-13400 Processor (20M Cache, up to 4.60 GHz)	10	65W	4.60 GHz	20 MB Intel® Smart Cache	Intel® UHD Graphics 730
7	Intel® Core™ i5-13500T Processor (24M Cache, up to 4.60 GHz)	14	35W	4.60 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
8	Intel® Core™ i5-13600K Processor (24M Cache, up to 5.10 GHz)	14	125W	5.1 GHz	24 MB Intel® Smart Cache	Intel® UHD Graphics 770
9	Intel® Core™ i5-13600KF Processor (24M Cache, up to 5.10 GHz)	14	125W	5.1 GHz	24 MB Intel® Smart Cache	
13th Generation Intel® Core™ i3 Processors						
1	Intel® Core™ i3-13100T Processor (12M Cache, up to 4.20 GHz)	4	35W	4.20 GHz	12 MB Intel® Smart Cache	Intel® UHD Graphics 730
12th Generation Intel® Core™ i9 Processors						
1	Intel® Core™ i9-12900 Processor (30M Cache, up to 5.10 GHz)	16	65W	5.10 GHz	30 MB Intel® Smart Cache	Intel® UHD Graphics 770
2	Intel® Core™ i9-12900F Processor (30M Cache, up to 5.10 GHz)	16	65W	5.10 GHz	30 MB Intel® Smart Cache	
3	Intel® Core™ i9-12900T Processor (30M Cache, up to 4.90 GHz)	16	35W	4.90 GHz	30 MB Intel® Smart Cache	Intel® UHD Graphics 770
4	Intel® Core™ i9-12900K Processor (30M Cache, up to 5.20 GHz)	16	125W	5.20 GHz	30 MB Intel® Smart Cache	Intel® UHD Graphics 770
5	Intel® Core™ i9-12900KF Processor (30M Cache, up to 5.20 GHz)	16	125W	5.20 GHz	30 MB Intel® Smart Cache	
12th Generation Intel® Core™ i7 Processors						
1	Intel® Core™ i7-12700T Processor (25M Cache, up to 4.70 GHz)	12	35W	4.70 GHz	25 MB Intel® Smart Cache	Intel® UHD Graphics 770
2	Intel® Core™ i7-12700 Processor (25M Cache, up to 4.90 GHz)	12	65W	4.90 GHz	25 MB Intel® Smart Cache	Intel® UHD Graphics 770
3	Intel® Core™ i7-12700F Processor (25M Cache, up to 4.90 GHz)	12	65W	4.90 GHz	25 MB Intel® Smart Cache	
4	Intel® Core™ i7-12700KF Processor (25M Cache, up to 5.00 GHz)	12	125W	5.00 GHz	25 MB Intel® Smart Cache	
5	Intel® Core™ i7-12700K Processor (25M Cache, up to 5.00 GHz)	12	125W	5.00 GHz	25 MB Intel® Smart Cache	Intel® UHD Graphics 770

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12th Generation Intel® Core™ i5 Processors						
1	Intel® Core™ i5-12500T Processor (18M Cache, up to 4.40 GHz)	6	35W	4.40 GHz	18 MB Intel® Smart Cache	Intel® UHD Graphics 770
2	Intel® Core™ i5-12500 Processor (18M Cache, up to 4.60 GHz)	6	65W	4.60 GHz	18 MB Intel® Smart Cache	Intel® UHD Graphics 770
3	Intel® Core™ i5-12600 Processor (18M Cache, up to 4.80 GHz)	6	65W	4.80 GHz	18 MB Intel® Smart Cache	Intel® UHD Graphics 770
4	Intel® Core™ i5-12600T Processor (18M Cache, up to 4.60 GHz)	6	35W	4.60 GHz	18 MB Intel® Smart Cache	Intel® UHD Graphics 770
5	Intel® Core™ i5-12400T Processor (18M Cache, up to 4.20 GHz)	6	35W	4.20 GHz	18 MB Intel® Smart Cache	Intel® UHD Graphics 730
6	Intel® Core™ i5-12400 Processor (18M Cache, up to 4.40 GHz)	6	65W	4.40 GHz	18 MB Intel® Smart Cache	Intel® UHD Graphics 730
7	Intel® Core™ i5-12400F Processor (18M Cache, up to 4.40 GHz)	6	65W	4.40 GHz	18 MB Intel® Smart Cache	
8	Intel® Core™ i5-12490F Processor (20M Cache, up to 4.60 GHz)	6	65W	4.60 GHz	20 MB Intel® Smart Cache	
9	Intel® Core™ i5-12600K Processor (20M Cache, up to 4.90 GHz)	10	125W	4.90 GHz	20 MB Intel® Smart Cache	Intel® UHD Graphics 770
10	Intel® Core™ i5-12600KF Processor (20M Cache, up to 4.90 GHz)	10	125W	4.90 GHz	20 MB Intel® Smart Cache	
12th Generation Intel® Core™ i3 Processors						
1	Intel® Core™ i3-12300 Processor (12M Cache, up to 4.40 GHz)	4	60W	4.40 GHz	12 MB Intel® Smart Cache	Intel® UHD Graphics 730
2	Intel® Core™ i3-12300T Processor (12M Cache, up to 4.20 GHz)	4	35W	4.20 GHz	12 MB Intel® Smart Cache	Intel® UHD Graphics 730
3	Intel® Core™ i3-12100T Processor (12M Cache, up to 4.10 GHz)	4	35W	4.10 GHz	12 MB Intel® Smart Cache	Intel® UHD Graphics 730
4	Intel® Core™ i3-12100F Processor (12M Cache, up to 4.30 GHz)	4	58W	4.30 GHz	12 MB Intel® Smart Cache	
5	Intel® Core™ i3-12100 Processor (12M Cache, up to 4.30 GHz)	4	60W	4.30 GHz	12 MB Intel® Smart Cache	Intel® UHD Graphics 730

RAID CARD COMPATIBILITY

MegaRAID® SAS 9261-8i

Eight-Port 6Gb/s PCI Express SATA+SAS RAID Controller



Key Features

- Eight internal 6Gb/s SATA+SAS ports
- Two Mini-SAS internal connectors (SFF-8087)
- –Horizontal mount
- LSI SAS 2108 6Gb/s RAID-on-Chip
- –800MHz PowerPC®
- 512MB 800MHz DDRII cache memory
- Optional battery backup module
- RAID Levels 0, 1, 5 and 6
- RAID Spans 10, 50 and 60

Key Advantages

- 6Gb/s SAS for superior levels of RAID performance
- PCI Express® 2.0 provides faster signaling for high-bandwidth applications
- Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
- SafeStore™ Encryption Services for more secure data protection

Typical Applications

- Video-On-Demand
- Video-Surveillance
- Video Creation + Editing
- Medical Imaging
- High-Performance Computing
- Digital Content Archive and VTL
- Storage Appliance
- File, Web, Database, and Email Servers

Supports Intel® vPro Technology

Intel vPro Enterprise for Windows OS delivers enterprise-grade computing, multilayer security, complete manage-ability, and stability that businesses rely on. You can manage all your PCs as if you're right in front of them, even if the device is outside of the firewall or won't boot. Sophisticated threat detection can help shut down an entire class of attacks and monitor against attacks without bogging down productivity.

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