AVC is the largest supplier of CPU heat sink for desktop computer in the world. With a market share of 35%, we are able to provide our clients with the most advanced and the most reliable products as their solutions.









Part No.₽	Z8ULD06001.	ZGUL410001.	
Dimension (mm)₊	117.5 x 112.5 x 76₽	92 x 95 x 113₽	
Voltage (V)₊	12+2	12.	
Bearing Type	Ο.	Ρ.,	
(BTSR)₊	N ⁴	N ⁴	
RPM₽	4500⊷	3800+3	
Noise (dB)₊	44.5₽	44.5₽	
Weight (g)∂	365₽	403~	
Annlingtion	LGA2011 Desktop Core	LGA2011 Desktop Cor	
Application	i7 140W₊	i7 140₩ _*	







Part No.₽	ZGHL412001+	Z6UR307001 +
Dimension (mm)₊	92 x 95 x 113₊	90x90x64₊
Voltage (V)₊	12.	12*
Bearing Type	Ρ.	Ρ.
(BTSR)₊		D.e.
RPM₊	3800₽	5500₽
Noise (dB)₊	44.5*	41.
Weight (g)₊	403.	301.
	LGA115X Desktop Side	LGA115X Desktop Side
A pplication .	Blow Core i7/i5 95W	Blow Core i7/i5 95W
	screw type cooler₀	screw type cooler₀







Part No.₽	Z8HL06T001+	Z8LU06L001.
Dimension (mm)₊	φ90 x H59.1 _*	φ90 x H61.5⊷
Voltage (V)₊	12.	12.
Bearing Type	Ρ.	Ρ.
(BTSR)₊	1.14	IX ⁴
RPM₽	3000*	4500+3
Noise (dB)₽	32.3₽	44.5₽
Weight (g)₊	360.	280*
	Socket 115X Desktop	LGA115X Desktop Core
A pplication ₽	Core i7/i5 65W cooler	i7/i5 95W push pin
	low noise solution.	cooler₀







Part No	Z8UL06L002.1	Z8UL06Q001.,
Dimension (mm).	Ø 90 x H61.5.	∲ 90 x H57.₁
Voltage (V).	12.,	12.1
Bearing Type (BTSR).,	R.,	R.a
RPM.1	4500.,	4500.,
Noise (dB).	44.5.1	44.5.,
Weight (g).	280.1	180.,
Application.	LGA115X Desktop Core i7/i5 95W push pin cooler.	LGA115X Desktop Core i7/i5 65W push pin cooler.







Part No.₽	Z8UL00A001+	Z8UL00A101+
Dimension (mm)₊	φ90 x H57₊	φ90 x H47₊
Voltage (V)₊	12.	12*
Bearing Type	D .	D -
(BTSR)₊	N + ³	
RPM⊷	4500₊	4500⊷
Noise (dB)₊	44.5.	44.5⊷
Weight (g)₊	310+3	218+
	LGA115X Desktop Core	LGA115X Desktop Core
Application.	i7/i5 95W screw type	i7/i5 65W screw type
	cooler₊	cooler







Part No.₽	SA0AG00001	SA4A900001
Dimension (mm)+	119.3 x78.9x25+	119.3 x78.9x25₽
CFM₽	150	15+2
Rca₊ [,]	0.227+2	0.171
Process.	Full Al-extrusion	Solder with Heat Pipe
Weight (g)₊	240⊷	264*
Application <i></i> <i></i> <i></i> <i></i> <i></i>	AMD Socket SP3 Processors	AMD Socket SP3 Processors
	140W*	180W₽



Solutions for AMD series





Part No.	Z8UH40Q001	Z8UH01L101e
Dimension (mm).	110 x 92 x 62₊	80 x 80 x 67.
Voltage (V)₊	12*	12.
Bearing Type (BTSR)₊	R⊷	R₄
RPM∾	4500₊	4500
Noise (dB)₊	44.5*	44.5₽
Weight (g),	370₽	335₽
Application.	AMD Socket AM3/Socket F 140W&	AMD Socket AM3/Socket F 100W ["]

AMD

Solutions for AMD series



Part No.₽	Z8UH01L001
Dimension (mm).	80 x 80 x 55.
Voltage (V)₊	12*
Bearing Type (BTSR)₀	Re
RPM₽	4500₊
Noise (dB)₀	44.5₽
Weight (g)₊	260+3
A pplication.	AMD Socket AM3/Socket F65W₽

Back Plates

47





Part No.P20900094.P10200012.Dimension (mm).88*88*7.92 x 89 x 5.Weight (g).55.21.Application.LGA1156 Desktop Metal
Back Plate.LGA1156 Desktop
Plastic Back Plate.

Video Graphics Array card is one of the most basic components of a PC. Its purpose is to transform the display information which the computer system needs to drive the monitor, and provides the monitor with scan signal for every line or every other line. Generally speaking, the VGA card we are using is capable of 3D screen computing and graphic acceleration, and therefore it is also known as "Graphic acceleration card" or "3D acceleration card". Especially for the demand from the fields of online gaming and multimedia video and audio, the burden of operation speed and power dissipation of VGA chips has been adding up, leading to the increasing importance of the effectiveness of VGA cooling solutions.

Pictires of application to the interior cooling of VGA:



Part No. SD42C00001+ SD42D00001+ Dimension (mm) L81.3*W82*H28.5 185.4*W82*H28.5 CFM₽ 12.37 12.37 0.359 0.355 Rca₽ Soldering/VC_{*} Soldering/VC₂ Process₽ Weight (g)₽ 177.9₽ 171.5. Application GEFORCE GTX 690 130W GEFORCE GTX 690 130W



Part No. « SD4K100001.« Dimension (mm) « L124.1*W81.75*H27.75 « CFM « 30.5.« Rca « 0.231.« Process « Soldering/pipe» Weight (g) « 283.« Application « GEFORCE GTX 980Ti/TITAN 160W.«



Part No. SD4K200001. Dimension (mm) L124.1xW81.4WxH22.15 CFM 30.5. Rca 0.201. Process Soldering/VC 400 Weight (g) 250. Application GEFORCE GTX 980Ti/TITAN 180W.



Part No.∂	SD42700001.	
Dimension (mm).	L241.3*W96.4*H15.7 _°	
CFM↩	7.93₽	
<mark>Rca</mark> ₊	0.472*	
Process₽	Soldering/pipe.	
Weight (g)₀	120.	
Application₀	QUADRO K4000 90W.	



Part No.₽	SD42T00002+	
Dimension (mm) _"	L267.65*W95.9*H34.4	
CFM₽	30.5	
<mark>Rca</mark> ⊷	0.234	
Process _€	Soldering/pipe.	
Weight (g)₀	300⊷	
Application	QUADRO K5000/K6000	
	170W.₀	

CPU HEAT SINK-AIO



All-In-One PC (AIO PC) refers to a PC with a motherboard of special design, which the integrated CPU, RAM, hard-disk drive and optical disk drive is embedded in the LCD screen, that is, this is a PC which integrate the computer case and the screen into one. Among AIO PCs, they can be further divided to those supports touchscreen function, and those do not. Since AIO PC is compact in case size, its production technique is similar to that of NB. AVC has years of experience in designing and manufacturing the cooling modules of NB. In addition, AVC has the ability to produce key components such as fans and heat pipes by ourselves, thus, the Company has the advantage in the development of AIO cooling modules. In terms of the design of the cooling system, AIO PC usually collocates with low energy-

CPU HEAT SINK-AIO

Dissection of AIO PC Internal Structure and Systematic Arrangement:



CPU HEAT SINK-AIO Internal Cooling Solutions:

Applicable crafts: (1) Combination of crafts including aluminium extrusion, die casting, heat pipe embedding/welding, crimped fin, CNC processing, paint, spray and surface anodizing, etc. (2) Mix-and-match application of axial fan and air-blow wheel fan



CPU HEAT SINK-NB

Notebooks

AVC is also one of the main suppliers of notebook cooling modules in the world. With years of experience and techniques, we ensure that notebooks, whose industrial design is gradually becoming slimmer, still keep their working temperature low and effectiveness.

AVC applicable cooling techniques and products:



CPU HEAT SINK-NB

(1) Small fan for NB

(2) Cooling module for NB

Heat pipe remote heat exchange (HpRHE) technique

HpRHE is a cooling solution of conducting heat to the remote radiator and the fan by using the heat cycling system formed within the heat pipe. HpRHE provides cooling solution to single or various heat source elements, and is applicable to electronic devices compact in size and shape and with limited space. Examples include the CPU, MCH, VGA or electronic elements of ultrahigh power inside the NB, which requires to conduct the heat to remote places to put through special cooling treatment, such as the cooling solutions for telecommunication wireless stations.

AVC caters to different requirements of spatial devices and heat conduction, and different HpRHE techniques and products are adopted, including copperwater heat pipe, methanol heat pipe, super-slim heat pipe (<1.5mm), loop heat pipe, gravitational heat pipe, and vapor chamber. We provide various cooling solution to our clients depending on their specific needs. Features description

- Lighter, slimmer, shorter and smaller than traditional heat sink
- Multiple heat sources handling
- Low noise, high efficiency, and motor is not needed
- Better flexibility in design

Annlicable fields

There are over 7.7 million new server computers which begin their operation every year in the world, providing various types of functions and services. AVC's solutions ensure them to operate uninterruptedly and normally around the clock.

(*Source: Gartner Group 2008) AVC applicable cooling technology and products:

(1) Server casing

(2) Barebone chassis (Level5), server chamber (CNC/die casting), mixed embedding technology

(3) CPU heat sink, heat sink for chip, cable, connector(4) Fan array, liquid-cooling heat sink

(5) Heat sink for chip, vapor chamber

(6) Fan and air blower



Solutions for Intel series

intel)





Part No. Dimension (mm) CFM Rca Process Weight (g)

Z8UL00A001. 95 x95x24.85. 15. 0.326. Soldering/pipe. 194. Z8UL00A101. 95 x95x24.85. 15. 0.344. Al extrusion. 210.

Application >

Xeon E3 1U 95W.

Xeon E3 1U 65W.

Solutions for Intel series

(intel)





ZGHL412001.	Z6UR307001
92 x 95 x 113₊	90x90x64₄
12.	12.
R₽	R₽
3800	5500₽
44.5₽	41.0
403.	301.
Xeon E3 Workstation 95₩₽	Xeon E3 2U Side Blov 95₩₽
	ZGHL412001. 92 x 95 x 113. 12. R. 3800. 44.5. 403. Xeon E3 Workstation 95W.

Square Type

Solutions for Intel series

(inte





Part No.₽	SQ42Q00001.	SQ42W00001*
Dimension (mm)₊	90 x90x25.5₽	90 x90x25.1₊
CFM₄∍	15⊷	15.
Rca₽	0.326	0.344
Process₽	Soldering/pipe.	Soldering /Vapor chamber @
Weight (g)₽	201.	306.
Application	Xeon E5 1U 135₩.	Xeon E5 1U 135W.

CPU, HEAT SIN<u>K-SERVER</u>

Solutions for Intel series

(intel)





Part No.₽	ZGUL410001*	: Z6UR306001 🖉
Dimension (mm)₊	92 x 95 x 113₊	90x90x64₄
Voltage (V)₊	12.	12.
Bearing Type (BTSR)₊	R _* ,	B₊∍
RPM₽	3800+	<mark>6800</mark> ⊷
Noise (dB)₊	44.5⊷	45⊷
Weight (g)₽	403.	371₽
A pplication .	Xeon E5 Workstation 160W₀	Xeon E5 2U Side Blow 145W₽

(intel) Narrow Type

Solutions for Intel series





Part No.	SQ42Q00001.	SQ44R00001.
Dimension (mm)₽	106 x70x25.5₽	106 x70x25.5₽
CFM⊷	15₽	15₽
Rca₽	0.239*	0.224*
Process₊	Soldering/pipe.	Soldering /Vapor chamber
Weight (g)₊	177₊≀	230₽

Application Xeon E5 1U 135W

Xeon E5 1U 135W.

Solutions for Intel series

intel





Part No. Dimension (mm) CFM Rca Rca Rca Weight (g) Application

SQ45100004. 104 x80x64. 26. 0.176. Soldering/pipe. 364. Xeon E5 2U 145W. SS44700002. 106 x70x25.5. 23.2. 0.174. Soldering /pipe. 387. Xeon E5 Tower 160W.

CPU HEAT SINK-WORKSTATION

Workstation is a general-purpose microcomputer. It is provided to a single user, and its computing ability is higher than that of a regular PC. In addition, the terminal connected to the server is also called a workstation. AVC' s systematic cooling solutions ensure them to operate uninterruptedly and normally around the clock.



AVC' s applicable cooling techniques and products:
(1)Workstation casing
(2)CPU heat sink, cable, connector
(3)System fan
(4)System wind scooper/hard disk frame

CPU HEAT SINK-WORKSTATION

Solutions for Intel Xeon E5 series



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Part No.₽

Z9US44E001 @

92 x90x105₽

12₽

R₽

4000₽

Dimension (mm)

Voltage (V)₽

Bearing Type (BTSR)₽

RPM₽

Noise (dB)

Weight (g)₊⊃

48.5₽ 500₽

Application
^e Xeon E5 Side Flow 165We

CPU HEAT SINK-IPC

Industrial PC (IPC) refers to the personal computer specifically intended for industry use, and it can be used as an industrial controller. The basic capacity and compatibility of IPC are almost the same with the PC of the same specification, but IPC has more protection procedures. IPC emphasizes the stability in different environments, such as controlling production lines of beverages or cars, as well as the stability in extreme environments, such as being dustproof, waterproof, and antistatic. IPC does not pursue the best performance currently available. but the demand for reliability and stability in industrial

environme should the required for has been w traffic con aviation, a









Combination of crafts including aluminium extrusion, die casting, heat pipe embedding/welding, crimped fin, CNC processing, paint, spray and surface anodizing, etc.