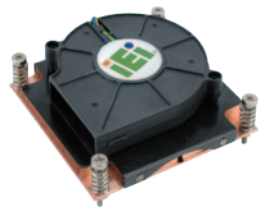
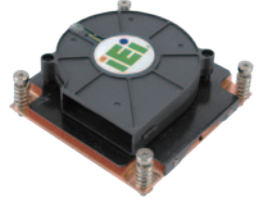


CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdowns and potential damage to CPUs.

For industrial applications, the following CPU coolers fit the needs of various operating environments, where different levels of cooling are required.

IEI Special Desktop Core™ CPU Cooler					
					
Where Used	For spacial models: SPCIE-C2260, PCIE-Q870, PCIE-H810, WSB-H810, KINO-AQ870				
Model Name	CF-1150SA-R10	CF-1150SB-R11	CF-1150SC-R20	CF-1150SE-R10	CF-1150SF-R10
Description	IEI customized cooler for LGA1150 Intel® CPU, RoHS		IEI customized cooler for LGA1150 Intel® CPU, 1U chassis compatible, RoHS	IEI customized cooler for LGA1150 Intel® CPU, RoHS	
CPU Solution	Intel® Core™ i7/i5	Intel® Core™ i7/i5	Intel® Core™ i7/i5	Intel® Core™ i7/i5	Intel® Core™ i7/i5
Socket Solution	LGA1150/LGA1151	LGA1150/LGA1151	LGA1150/LGA1151	LGA1150/LGA1151	LGA1150/LGA1151
Dimensions (mm)	83 x 83 x 57	96 x 82 x 60	105 x 80 x 23.7	107 x 61 x 60	107 x 70 x 35
Material	Al	Al	Cu	Cu	Al
Bearing Type	Ball And Sleeve	Two Ball	Two Ball	Two Ball	Two Ball
Capability (Watt)	95W	65W	65W	95W	54W
Fan Speed (RPM)	4200	3500	5500	4200	4500
Noise Level (dBA)	40	41	55	36	39
Life Expectancy (hrs)	40000	50000	50000	50000	50,000
Weight		286g	406g	812g	220g

Desktop Core™ CPU Cooler				
				
	LGA1355/1356/2011			
Model Name	CF-1356A-RS	CF-1356B-RS	CF-2011A-RS	CF-2011B-RS
Description	High performance LGA1355/1356/2011 cooler kit			
CPU Solution	Intel® Xeon® E5-2400		Intel® Xeon® processor E5-2600	
Socket Solution	LGA1355/1356	LGA1355/1356	LGA2011	LGA2011
Dimensions (mm)	89 x 80 x 27	89 x 90 x 24	89 x 88 x 27.2	89 x 88 x 45.1
Material	Copper			
Bearing Type	Two-ball	Ball and Sleeve	Two-ball	Ball and Sleeve
Capability (Watt)	60W	95W	130W	130W
Fan Speed (RPM)	4500	5500	5500	4500
Noise Level (dBA)	51	42	55	42
Life Expectancy (hrs)	50000	40000	50000	40000
Weight	55g	50g	55g	50g

CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdowns and potential damage to CPUs.

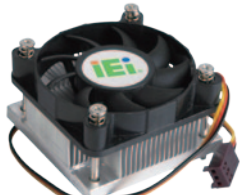
For industrial applications, the following CPU coolers fit the needs of various operating environments, where different levels of cooling are required.

Intel® Standard Desktop Core™ CPU Cooler				
				
LGA115X (LGA1150/ LGA1151/ LGA1155/ LGA1156)				
Model Name	CF-1156A-RS-R11	CF-1156E-R11	CF-1156C-RS	CF-1156D-RS
Description	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible	High performance LGA1155/LGA1156 CPU cooler, RoHS	Low power LGA1155/LGA1156 cooler kit, RoHS	
CPU Solution	Intel® Core™ i5/i3	Intel® Xeon®/Core™ i7/i5/i3	Intel® Core™ i5/i3	Intel® Core™ i7/i5/i3
Socket Solution	LGA115X (LGA1150/ LGA1151/ LGA1155/ LGA1156)			
Dimensions (mm)	89 x 92.6 x 27.4	90 x 90 x 64	90 x 90 x 33	90 x 90 x 33
Material	Cu	Al	Al	Cu+Al
Bearing Type	Two-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)	73W	95W	45W	65W
Fan Speed (RPM)	5500	5500	3000	3000
Noise Level (dBA)	51	40.5	33.4	33.4
Life Expectancy (hrs)	50000	50000	50000	50000
Weight	422g	301g	192g	227g

Desktop CPU Cooler				
				
LGA775 Cooler				Pentium® 4 Cooler
Model Name	CF-775A-RS	CF-775B-RS-R11	CF-520-RS-R11	CF-478A-RS
Description	High performance Two copper pipes LGA 775 CPU cooler, RoHS	High performance 1U LGA 775 CPU cooler, w/ 7010 fan, RoHS	High performance LGA 775 CPU cooler, RoHS	High Performance Copper Socket 478 CPU Cooler, RoHS
CPU Solution	Intel® Core™2 Quad	Intel® Core™2 Duo	Intel® Core™2 Duo	Intel® Pentium® 4
Socket Solution	LGA 775	LGA 775	LGA 775	Socket 478
Dimensions (mm)	92 x 92 x 73	80.5 x 81 x 28.2	115 x 115 x 67	92 x 92 x 67
Material	Cu-Al	Cu	Aluminum Alloy	Cu
Bearing Type	Rifle	Two-ball	Two-ball	Rifle
Capability (Watt)	130W	90W	115W	115W
Fan Speed (RPM)	3600	4250	4500	3600
Noise Level (dBA)	36.6~39.6	40	47.5~51.5	39.6
Life Expectancy (hrs)	40000	50000	70000	40000
Weight	492g	600g	635g	390g

CPU Cooler *High performance thermal solutions*

	Desktop CPU Cooler			CPU cooler
				
	Pentium® 4 Cooler		Pentium® 3 Cooler	BLOWER
Model Name	CF-478B-RS-R11	CF-514-RS	CF-370A-RS	BF-02-RS
Description	High Performance Heat Pipes Socket 478 1U CPU cooler, RoHS	High Performance Skiving Intel® Pentium® 4 CPU cooler, RoHS	High Performance Slim Type Socket 370 CPU cooler, RoHS	Bracket cooling fan, RoHS
CPU Solution	Intel® Pentium® 4	Intel® Pentium® 4	Intel® Pentium® 3	Bracket cooling fan
Socket Solution	Socket 478	Socket 478	Socket 370	
Dimensions (mm)	89 x 76 x 26	83 x 70 x 55	50 x 52 x 20	112 x 90 x 21
Material	Cu-Al	Aluminum Alloy	Cu-Al	Plastic
Bearing Type	Two-ball	Two-ball	Two-ball	One-ball
Capability (Watt)	86W	86W	40W	
Fan Speed (RPM)	4800	4800	5500	2800
Noise Level (dBA)	40	42.4	32.1	28
Life Expectancy (hrs)	50000	50000	40000	45000
Weight	25g	284g	62g	107.5g

	Mobile Core™ i7 CPU Cooler		Mobile CPU Cooler	
				
	PGA989		Pentium® M Cooler	
Model Name	CF-989A-RS-R12	CF-989B-RS-R11	CF-479B-RS	CF-518-RS
Description	High performance Socket-G (PGA989) smart fan CPU cooler, RoHS	High performance Socket-G (PGA989) CPU cooler, Aluminum, RoHS	High Performance Socket 479, M and P Intel® Pentium® M CPU cooler, RoHS	High Performance Intel® Pentium® M CPU cooler, RoHS
CPU Solution	Intel® Core™ i7/i5/i3	Intel® Core™ i7/i5/i3	Intel® Pentium® M, Core™2 Duo (Mobile)	Intel® Pentium® M
Socket solution	PGA989	PGA989	Socket 479	Socket 479
Dimensions (mm)	60 x 60 x 27.5	60 x 60 x 27.5	50 x 50 x 16	60 x 60 x 26
Material	Cu	Al	Al	Aluminum Alloy
Bearing Type	Two-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)	55W	50W	50W	20W
Fan Speed (RPM)	4800	4800	5500	5000
Noise Level (dBA)	40	40	30.1	36.1
Life Expectancy (hrs)	50000	50000	50000	50000
Weight	255g	26g	19g	116g

Mouser Electronics

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BF-02-RS