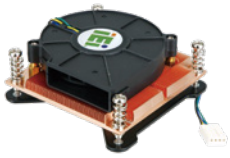
CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdown 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 special models: SPCIE-C2260, PCIE-Q870, PCIE-H810, WSB-H810, KINO-AQ870			
Model Name	**CF-1150SA-R10**	**CF-1150SB-R11**	**CF-1150SC-R20**	**CF-1150SE-R11**
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
Socket Solution	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 70 x 60
Material	Al	Al	Cu	Cu
Bearing Type	Ball and sleeve	Two-ball	Two-ball	Two-ball
Capability (Watt)	**95 W**	**65 W**	**65 W**	**95 W**
Fan Speed (RPM)	4200	3500	5500	4200
Noise Level (dBA)	40	41	55	36
Life Expectancy (hrs)	40,000	50,000	50,000	50,000
Weight	330 g	286 g	406 g	812 g

	Intel® Standard Desktop Core™ CPU Cooler				
					
	LGA115X (LGA1150/LGA1151/LGA1155/LGA1156)				
Model Name	**CF-115XA-R10**	**CF-1156C-R20**	**CF-1156D-R30**	**CF-115XE-R10**	**CF-115XF-R10**
Description	High performance LGA1155/ LGA1156 cooler kit, 1U chassis compatible	Low power LGA1155/LGA1156 cooler Kit, RoHS		High performance LGA1155/ LGA1156 CPU cooler, RoHS	High performance LGA1155/ LGA1156 CPU cooler, RoHS
CPU Solution	Intel® Core™ i5/i3	Intel® Core™ i5/i3	Intel® Core™ i7/i5/i3	Intel® Xeon®/Core™ i7/i5/i3	Intel® Xeon®/Core™ i7/i5/i3
Socket Solution	LGA115X (LGA1150/LGA1151/LGA1155/LGA1156)				
Dimensions (mm)	89 x 92.6 x 27.4	90 x 90 x 33	90 x 90 x 33	91 x 91 x 84	90 x 90 x 69.3
Material	Cu	Al	Cu+Al	Al	Al
Bearing Type	Two-ball	Two-ball	Two-ball	Ball and Sleeve	Two Ball
Capability (Watt)	**73 W**	**45 W**	**65 W**	**95 W**	**95 W**
Fan Speed (RPM)	5500	3600	3600	4200	4200
Noise Level (dBA)	51	40	40	40	48
Life Expectancy (hrs)	50,000	70,000	70,000	40,000	50,000
Weight	422 g	198 g	240 g	301 g	432

CPU Cooler *High performance thermal solutions*

	Desktop CPU Cooler	
	LGA775 Cooler	
Model Name	**CF-775B-RS-R11**	**CF-520-RS-R11**
Description	High performance 1U LGA 775 CPU cooler, with 7010 fan, RoHS	High performance LGA 775 CPU cooler, RoHS
CPU Solution	Intel® Core™2 Duo	Intel® Core™2 Duo
Socket Solution	LGA 775	LGA 775
Dimensions (mm)	80.5 x 81 x 28.2	115 x 115 x 67
Material	Cu	Aluminum alloy
Bearing Type	Two-ball	Two-ball
Capability (Watt)	**90 W**	**115 W**
Fan Speed (RPM)	4250	4500
Noise Level (dBA)	40	47.5~51.5
Life Expectancy (hrs)	50,000	70,000
Weight	600 g	635 g

	CPU Cooler	Mobile Core™ i7 CPU Cooler	
	Blower	PGA989	
Model Name	**BF-02-RS**	**CF-989A-RS-R12**	**CF-989B-RS-R11**
Description	Bracket cooling fan, RoHS	High performance Socket-G (PGA989) smart fan CPU cooler, RoHS	High performance Socket-G (PGA989) CPU cooler, aluminum, RoHS
CPU Solution	Breaket cooling fan	Intel® Core™ i7/i5/i3	Intel® Core™ i7/i5/i3
Socket Solution		PGA989	PGA989
Dimensions (mm)	112 x 90 x 21	60 x 60 x 27.5	60 x 60 x 27.5
Material	Plastic	Cu	Al
Bearing Type	One-ball	Two-ball	Two-ball
Capability (Watt)		**55 W**	**50 W**
Fan Speed (RPM)	2800	4800	4800
Noise Level (dBA)	28	40	40
Life Expectancy (hrs)	45,000	50,000	50,000
Weight	107.5 g	255 g	26 g

CPU Cooler *High performance thermal solutions*

	CPU Cooler			
Where Used	**For special models: IMBA-Q470 & IMBA-Q471**			
Model Name	**19100-000316-00-RS**	**19100-000317-00-RS**	**19100-000312-00-RS**	**19100-000318-00-RS**
CPU Solution	Intel® Core™ i9/i7/i5/i3	Intel® Core™i9 /i7/i5/i3	Intel® Core™ i9/i7/i5/i3	Intel® Core™ i9/i7/i5/i3
Socket Solution	LGA 115X/1200	LGA 1156	LGA 115X/1200	LGA 115X/1200
Dimensions(mm)	91 x 90 x 65.5	105 x 92.5 x 125.8	92.5 x 90 x 30.15	103 x 95 x 127
Material	VC+AL	CU+AL	Al	Al
Bearing Type	Two-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)	**125W**	**125W**	**125W**	**125W**
Fan Speed(RPM)	8500	2800	7000	3600
Noise Level(dBA)	55	36	59	44
Life Expectancy (hrs)	70,000	70,000	80,000	70,000
Temperature	0ºC-45ºC	0ºC-45ºC	0ºC-40ºC	0ºC-50ºC
Weight	430 g	660 g	435 g	380 g