







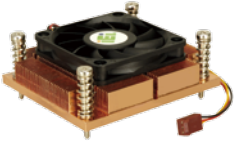
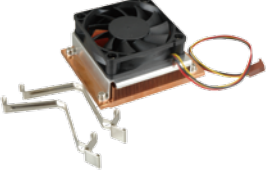

CPU Cooler *High performance thermal solutions*





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.

| Desktop Core™ CPU Cooler | | | | |
|--------------------------|---|---|--|---|
| |  |  |  |  |
| | LGA1155/LGA1156 | | | |
| Model Name | CF-1156A-RS-R11 | CF-1156B-RS | CF-1156C-RS 45W | CF-1156D-RS 65W |
| Description | High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible | High performance LGA1155/LGA1156 cooler kit | Low power LGA1155/LGA1156 cooler kit for Intel® CPU, 45W, 1U chassis compatible, CCL, RoHS | |
| CPU Solution | Intel® Core™ i5/i3 | Intel® Xeon®/Core™ i7/i5/i3 | Intel® Core™ i5/i3 | Intel® Core™ i7/i5/i3 |
| Socket Solution | LGA1155/LGA1156 | LGA1155/LGA1156 | LGA1155/LGA1156 | LGA1155/LGA1156 |
| Dimensions (mm) | 89 x 92.6 x 27.4 | 91 x 91 x 82 | 90 x 90 x 33 | 90 x 90 x 33 |
| Material | Cu | Aluminum Alloy | Al | Cu+Al |
| Bearing Type | Two-ball | Two-ball | Two-ball | Two-ball |
| Capability (Watt) | 73W | 95W | 45W | 65W |
| Fan Speed (RPM) | 5500 | 5000 | 3000 | 3000 |
| Noise Level (dBA) | 51 | 45 | 33.4 | 33.4 |
| Life Expectancy (hrs) | 50000 | 70000 | 50000 | 50000 |
| Weight | 422g | 248g | 192g | 227g |

| Mobile Core™ i7 CPU Cooler | | Desktop CPU Cooler | | | |
|----------------------------|---|---|---|---|---|
| |  |  |  |  |  |
| | PGA989 | | LGA775 Cooler | | |
| Model Name | CF-989A-RS-R12 | CF-989B-RS | CF-775A-RS | CF-775B-RS-R11 | CF-520-RS-R11 |
| Description | High performance Socket-G (PGA989) smart fan CPU cooler, RoHS | High performance Socket-G (PGA989) CPU cooler, Aluminum, RoHS | High performance Two copper pipes LGA 775 CPU cooler, RoHS | High performance 1U LGA 775 CPU cooler, w/ 7010 fan, copper, RoHS | High performance LGA 775 CPU cooler, RoHS |
| CPU Solution | Intel® Core™ i7/i5/i3 | Intel® Core™ i7/i5/i3 | Intel® Core™2 Quad | Intel® Core™2 Duo | Intel® Core™2 Duo |
| Socket solution | PGA989 | PGA989 | LGA 775 | LGA 775 | LGA 775 |
| Dimensions (mm) | 60 x 60 x 27.5 | 60 x 60 x 27.6 | 92 x 92 x 73 | 80.5 x 81 x 28.2 | 115 x 115 x 67 |
| Material | Cu | Al | Cu-Al | Cu | Aluminum Alloy |
| Bearing Type | Two-ball | Two-ball | Rifle | Two-ball | Two-ball |
| Capability (Watt) | 55W | 50W | 130W | 90W | 115W |
| Fan Speed (RPM) | 4800 | 4800 | 3600 | 4250 | 4500 |
| Noise Level (dBA) | 40 | 37 | 36.6~39.6 | 40 | 47.5~51.5 |
| Life Expectancy (hrs) | 50000 | 70000 | 40000 | 50000 | 70000 |
| Weight | 255g | 140g | 492g | 600g | 635g |

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| Desktop CPU Cooler | | | | |
|-----------------------|---|---|--|---|
| |  |  |  |  |
| | Pentium® 4 Cooler | | | |
| Model Name | CF-478A-RS | CF-478B-RS | CF-478D-RS-R11 | CF-514-RS |
| Description | High Performance Copper Socket 478 CPU Cooler, RoHS | High Performance Heat Pipes Socket 478 1U CPU Cooler, RoHS | Socket 478 1U CPU Cooler | High Performance Skiving Intel® Pentium® 4 CPU Cooler, RoHS |
| CPU Solution | Intel® Pentium® 4 | Intel® Pentium® 4 | Intel® Pentium® 4 / AMD AM2 | Intel® Pentium® 4 |
| Socket Solution | Socket 478 | Socket 478 | Socket 478 / Socket AM2 for IEI SBC | Socket 478 |
| Dimensions (mm) | 92 x 92 x 67 | 89 x 76 x 26 | 83 x 68.8 x 31.2 | 83 x 70 x 55 |
| Material | Cu | Cu-Al | Cu | Aluminum Alloy |
| Bearing Type | Rifle | Two-ball | Two-ball | Two-ball |
| Capability (Watt) | 115W | 86W | 65W | 86W |
| Fan Speed (RPM) | 3600 | 4800 | 4800 | 4800 |
| Noise Level (dBA) | 39.6 | 37 | 37 | 42.4 |
| Life Expectancy (hrs) | 40000 | 40000 | 50000 | 50000 |
| Weight | 390g | 204g | 470g | 284g |

| | Mobile CPU Cooler | | Desktop CPU Cooler | CPU Cooler |
|-----------------------|---|---|--|---|
| |  |  |  |  |
| | Pentium® M Cooler | | Pentium® 3 Cooler | BLOWER |
| Model Name | CF-479B-RS | CF-518-RS | CF-370A-RS | BF-02-RS |
| Description | High Performance Socket 479, M and P Intel® Pentium® M CPU Cooler, RoHS | High Performance Intel® Pentium® M CPU Cooler, RoHS | High Performance Slim Type Socket 370 CPU Cooler, RoHS | Bracket Cooling Fan, RoHS |
| CPU Solution | Intel® Pentium® M, Core™2 Duo (Mobile) | Intel® Pentium® M | Intel® Pentium® 3 | Bracket cooling fan |
| Socket Solution | Socket 479 | Socket 479 | Socket 370 | |
| Dimensions (mm) | 50 x 50 x 26 | 60 x 60 x 26 | 50 x 52 x 20 | 112 x 90 x 21 |
| Material | Al | Aluminum Alloy | Cu-Al | Plastic |
| Bearing Type | Two-ball | Two-ball | Two-ball | One-ball |
| Capability (Watt) | 50W | 20W | 40W | |
| Fan Speed (RPM) | 6000 | 5000 | 5500 | 2800 |
| Noise Level (dBA) | 39 | 36.1 | 32.1 | 28 |
| Life Expectancy (hrs) | 40000 | 50000 | 40000 | 45000 |
| Weight | 86g | 116g | 62g | 107.5g |