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Swiftech HD7900 Series Full Cover Heatsink for AMD Radeon HD7950

$39.95

Product Images

Short Description

The HD7900 series heatsink are designed to cool surface mount components (memory, and mosfets) on AMD® Radeon™ HD 7970 and HD 7950 reference board design graphics cards which Brand Models are listed hereafter.

Description

The HD7900 series heatsink are designed to cool surface mount components (memory, and mosfets) on AMD® Radeon™ HD 7970 and HD 7950 reference board design graphics cards which Brand Models are listed hereafter. Due to the differences in PCB design between the HD 7970 and 7950, two specific models are available: the HD7970-HS and HD7950-HS

The Heatsinks are designed to be installed in conjunction with our MCW82-7900 VGA waterblocks and to allow stable overclocks

while keeping the cards cool and silent.

The performance advantage of hybrid cooling which consists in cooling the processor with a GPU waterblock in combination with a heatsink, as opposed to using a full-cover water-block solution, is well known among enthusiast users: improved thermal dissipation at the GPU level thanks to Swiftech's Diamond Pin Matrix, a more reliable TIM joint, and less heat dumped into the liquid cooling loop coming from memory and power MOSFETS, since they remain air cooled. In addition, this combination provides a complete solution that is more economical than full-cover waterblocks because the GPU waterblock can be re-used over time with different VGA cards.

The heatsinks are a precision CNC machined Aluminum extrusions, and they are designed to allow optimum TIM joints with the hottest components. Thermal pads are pre-applied onto the pedestals corresponding to each component to be cooled. Lastly, the heatsink feature mounting holes to install an optional 60mm fan to provide additional cooling for users who perform extreme voltage modifications.

Features

Recommended Use
- Adequate ventilation for no or moderate overclok applications: a gentle draft of air blowing in the general direction of the heatsink is recommended for best results.
- Preferred ventilation for high overclock applications: use of an optional 60x15mm quiet fan (1500 rpm range) is recommended; see thermal test data below for comparative performance with the reference cooling soltuion.

Thermal Test Data

All tests were conducted at 23°C +/- 0.5°C ambient - GPU cooled by MCW82-7900 - Liquid Cooling system: MCR320-Drive with 1800 rpm fans.

A first series of tests using the Unigine Heaven benchmark is representative of conditions found in a typical gaming scenario. Two operating conditions were tested: at stock frequency & voltage, and at maximum stable overclock & stock voltage.

Reference cooler	925	78	64	56	2417	Low	
MCW82-7900 + 7970-HS no fan	925	37	60	57	n/a	None	
MCW82-7900 + 7970-HS with fan	925	37	51	48	1500	Whisper	

Reference cooler	1150	81	71	60	2565	Low	
MCW82-7900 + 7970-HS with fan	1190	38	54	50	1500	Whisper	

A second series of tests using the Furmark benchmark is representative of artificially high loads not usually encountered in typical gaming (real life) situations. The tests are nonetheless presented as worse case scenarios. Two operating conditions were tested: at stock frequency & voltage, and at maximum stable overclock & stock voltage.

Reference cooler	925	86	88	67	3051	Noticeable	
MCW82-7900 + 7970-HS no fan	925	45	98	87	n/a	None	
MCW82-7900 + 7970-HS with fan	925	44	77	66	1500	Whisper	

Reference cooler	1150	90	100	72	3382	High	
MCW82-7900 + 7970-HS with fan	1190	46	92	75	1500	Whisper	

Specifications

- Material: black anodized aluminum extrusion
- Dimensions (Inch): 9.5" (L) x 3.7" (W) x .73" (H)
- Dimensions (Metric): 242 (L) x 94mm (W) x 18.5 mm (H)
- Weight: 12 oz (338 g)
- Installation: high thermal conductivity 0.5mm pads for memory and power mosfets
- Pre-existing mount holes for optional 80mm fan

Brand Models Compatibility List (subject to frequent updates)

Critical information:

The PCB revision numbers noted below represent the deciding factor to go by when selecting your Swiftech product, rather than the brand and/or model number of the card.

Please carefully inspect your card to locate the PCB revision number. All brands using AMD reference PCB's normally print this number on the card. It is usually located immediately above the gold PCI contacts (GPU side of the board).

Here is an example showing a PCB number 109-C20547 (the -00P at the end can be ignored)
Caution: 1 digit may make the difference between supported or not supported!

HD7970-HSF compatible graphics card models by brand	HD7950-HSF compatible graphics card models by
ASUS HD7970-3GD5-3DI2S Radeon HD 7970 3GB	ASUS HD7950-DC2-3GD5 Radeon HD 7950 3GB
CLUB-3D HD7970, Radeon HD7970, 3.0GB GDDR5, PCI-Express (CGAX-7977)	ASUS HD7950-DC2T-3GD5 Radeon HD 7950 3GB
Diamond AMD Radeon HD 7970 PCIE 3G GDDR5 Video Graphics Card 7970PE53G	Club 3D CGAX-7957 Radeon HD 7950 3GB GDDR5
GIGABYTE GV-R797D5-3GD-B	Club 3D CGAX-7977O Radeon HD 7970 royalKing 3GB GD
GIGABYTE GV-R797OC-3GD Radeon HD 7970 3GB	GIGABYTE GV-R795WF3-3GD Radeon HD 7950 3GB
HIS H797F3G2M Radeon HD 7970 3GB	HIS H795F3G2M Radeon HD 7950 3GB
HIS H797QMT3G2M HD 7970 IceQ X2 Turbo 3GB	MSI R7950 Twin Frozr 3GD5/OC Radeon HD 7950 3GB
MSI R7970-2PMD3GD5 Radeon HD 7970 3GB	MSI R7950-2PMD3GD5/OC Radeon HD 7950 3GB
MSI R7970-2PMD3GD5/OC Radeon HD 7970 3GB	PowerColor AX7950 3GBD5-2DH Radeon HD 7950 3GB
PowerColor AX7970 3GBD5-2DHV2 Radeon HD 7970 3GB	PowerColor PCS+ AX7950 3GBD5-2DHPP Radeon HD 795
PowerColor AX7970 3GBD5-2DHV3 Radeon HD 7970 3GB	Sapphire Radeon HD 7950 3GB GDDR5 (11196-00-40G)
PowerColor AX7970 3GBD5-M2DHG Radeon HD 7970 3GB	Sapphire Radeon HD 7950 OC 3GB GDDR5 (11196-02-40
SAPPHIRE 11197-01-40G Radeon HD 7970 3GB	VisionTek 900492 Radeon HD 7950 3GB
SAPPHIRE 21197-00-40G Radeon HD 7970 3GB	VTX3D Radeon HD 7950 3GB GDDR5 (VX7950 3GBD5-2D
SAPPHIRE 11197-06-40G Radeon HD 7970 3GB	VTX3D Radeon HD 7950 X-Edition 3GB GDDR5 (VX7950 :
VisionTek 900491 Radeon HD 7970 3GB	XFX Double D Black Edition FX-795A-TDBC Radeon HD 79
VTX3D HD7970 3GB GDDR5 VX7970 3GBD5-M2DHG	XFX Radeon HD 7950 Black Edition 3GB GDDR5 (FX-795A
VTX3D HD7970 3GB GDDR5 X-Edition VX7970 3GBD5-2DHX	XFX FX-795A-TNFC Radeon HD 7950 Core Edition 3GB
XFX Double D FX-797A-TDBC Radeon HD 7970 Black Edition 3GB	XFX Double D FX-795A-TDFC Radeon HD 7950 3GB
XFX Double D FX-797A-TDFC Radeon HD 7970 3GB	

XFX FX-797A-TNBC Radeon HD 7970 Black Edition 3GB	
XFX FX-797A-TNFC Radeon HD 7970 Core Edition 3GB	

Additional Information

Brand	Swiftech
SKU	HD7950-HS
Weight	2.5000
Color	Black
Vga	AMD 7XXX
Block GPU Type	AMD
Block Style	Aluminum