



DDR4 GAMING **VULCAN**

T-Force | DDR4 Vulcan

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Multi punch pressed and elegant **dual** colors design

The Team Group design team had built a heat spreader with an all new exterior design concept. Not only the dual colors design is eye catching, but the asymmetric cutting also displays VULCAN's unique style. Consumers can freely choose from the contrasting colors of black and red, or the calming colors of black and gray.

With complete coverage design and improve radiating performance **2%**

The design of DDR4 VULCAN's heat spreader is different than DDR3 VULCAN's.

The heat spreader area is extended to the top and the two sides to provide memory a complete coverage of protection and enhance the radiating performance, so the system is able to maintain a long time stable operation.

Ultra low working voltage Save energy up to **40%**

With low working voltage 1.2~1.4V from DDR4 VULCAN, it is not only energy saving but it can also reduce the temperature and the heat generated to offer the high speed running memory a stable and long time operation.

XMP2.0 **1** step overclocking technology

All VULCAN series support Intel® XMP 2.0. It is only one step away to experience the high speed sensation of overclocking.

QVL approved by motherboard manufacturers

Multiple compatibility verifications with mainstream DDR4 motherboards to make sure its stability with all motherboards on the QVL (Qualified Vendor List). Therefore, you wouldn't have to worry about compatibility issues when purchasing high speed memory.

Main Feature

- Asymmetric cutting design heat spreader
- High Quality Aluminum forged heat spreader all-covered.
- Selected high quality IC chips
- 1.2V~1.4V ultra low working voltage
- Support intel XMP 2.0 smart overclocking technology
- QVL approved by mainstream motherboard manufactures in the market



Specification

Module Type	288 Pin Unbuffered DIMM Non ECC				
Capacity	4GB / 4GBx2 / 4GBx4 / 8GB / 8GBx2 / 8GBx4 / 16GB / 16GBx2 / 16GBx4				
Frequency	2400	2666	2800	3000	3200
Data transfer bandwidth	19,200 MB/s (PC4 19200)	21,328 MB/s (PC4 21300)	22,400 MB/s (PC4 22400)	24,000 MB/s (PC4 24000)	25,600 MB/s (PC4 25600)
Latency	CL14-16-16-31 CL15-17-17-35 CL16-16-16-39	CL15-17-17-35	CL16-18-18-38	CL16-18-18-38	CL16-18-18-38
Voltage	1.2V			1.35V	
Dimensions	32(H) x 140(L) x 7(W)mm				
Heat Spreader	Aluminum heat spreader				
Warranty	Lifetime warranty				

Ordering Information

Description	Color	Timings/Voltage	Capacity	Team P/N
TEAM Vulcan UD-D4 2400	Red	CL14-16-16-31 1.2V	4GB	TLRED44G2400HC1401
		CL14-16-16-31 1.2V	4GBx2	TLRED48G2400HC14DC01
		CL14-16-16-31 1.2V	4GBx4	TLRED416G2400HC14QC01
		CL14-16-16-31 1.2V	8GB	TLRED48G2400HC1401
		CL14-16-16-31 1.2V	8GBx2	TLRED416G2400HC14DC01
		CL14-16-16-31 1.2V	8GBx4	TLRED432G2400HC14QC01
		CL15-17-17-35 1.2V	16GB	TLRED416G2400HC15B01
		CL15-17-17-35 1.2V	16GBx2	TLRED432G2400HC15BDC01
		CL15-17-17-35 1.2V	16GBx4	TLRED464G2400HC15BQC01
		CL16-16-16-39 1.2V	4GB	TLRED44G2400HC1601
		CL16-16-16-39 1.2V	4GBx2	TLRED48G2400HC16DC01
		CL16-16-16-39 1.2V	8GB	TLRED48G2400HC1601
		CL16-16-16-39 1.2V	8GBx2	TLRED416G2400HC16DC01
		CL16-16-16-39 1.2V	16GB	TLRED416G2400HC1601
		CL16-16-16-39 1.2V	16GBx2	TLRED432G2400HC16DC01
		TEAM Vulcan UD-D4 2666	Red	CL15-17-17-35 1.2V
CL15-17-17-35 1.2V	4GBx2			TLRED48G2666HC15BDC01
CL15-17-17-35 1.2V	4GBx4			TLRED416G2666HC15BQC01
CL15-17-17-35 1.2V	8GB			TLRED48G2666HC15B01
CL15-17-17-35 1.2V	8GBx2			TLRED416G2666HC15BDC01
CL15-17-17-35 1.2V	8GBx4			TLRED432G2666HC15BQC01

Description	Color	Timings/Voltage	Capacity	Team P/N
TEAM Vulcan UD-D4 2666	Red	CL15-17-17-35 1.2V	16GB	TLRED416G2666HC15B01
		CL15-17-17-35 1.2V	16GBx2	TLRED432G2666HC15BDC01
		CL15-17-17-35 1.2V	16GBx4	TLRED464G2666HC15BQC01
TEAM Vulcan UD-D4 2800		CL16-18-18-38 1.2V	4GBx2	TLRED48G2800HC16CDC01
		CL16-18-18-38 1.2V	4GBx4	TLRED416G2800HC16CQC01
		CL16-18-18-38 1.2V	8GBx2	TLRED416G2800HC16CDC01
		CL16-18-18-38 1.2V	8GBx4	TLRED432G2800HC16CQC01
		CL16-18-18-38 1.2V	16GBx2	TLRED432G2800HC16CDC01
		CL16-18-18-38 1.2V	16GBx4	TLRED464G2800HC16CQC01
TEAM Vulcan UD-D4 3000		CL16-18-18-38 1.35V	4GBx2	TLRED48G3000HC16CDC01
		CL16-18-18-38 1.35V	4GBx4	TLRED416G3000HC16CQC01
		CL16-18-18-38 1.35V	8GBx2	TLRED416G3000HC16CDC01
		CL16-18-18-38 1.35V	8GBx4	TLRED432G3000HC16CQC01
		CL16-18-18-38 1.35V	16GBx2	TLRED432G3000HC16CDC01
		CL16-18-18-38 1.35V	16GBx4	TLRED464G3000HC16CQC01
TEAM Vulcan UD-D4 3200	CL16-18-18-38 1.35V	4GBx2	TLRED432G3200HC16CDC01	
	CL16-18-18-38 1.35V	4GBx4	TLRED416G3200HC16CQC01	
	CL16-18-18-38 1.35V	8GBx2	TLRED416G3200HC16CDC01	
	CL16-18-18-38 1.35V	8GBx4	TLRED432G3200HC16CQC01	
	CL16-18-18-38 1.35V	16GBx2	TLRED48G3200HC16CDC01	
	CL16-18-18-38 1.35V	16GBx4	TLRED464G3200HC16CQC01	
TEAM Vulcan UD-D4 2400	Gray	CL14-16-16-31 1.2V	4GB	TLGD44G2400HC1401
		CL14-16-16-31 1.2V	4GBx2	TLGD48G2400HC14DC01
		CL14-16-16-31 1.2V	4GBx4	TLGD416G2400HC14QC01
		CL14-16-16-31 1.2V	8GB	TLGD48G2400HC1401
		CL14-16-16-31 1.2V	8GBx2	TLGD416G2400HC14DC01
		CL14-16-16-31 1.2V	8GBx4	TLGD432G2400HC14QC01
		CL15-17-17-35 1.2V	16GB	TLGD416G2400HC15B01
		CL15-17-17-35 1.2V	16GBx2	TLGD432G2400HC15BDC01
		CL15-17-17-35 1.2V	16GBx4	TLGD464G2400HC15BQC01
		CL16-16-16-39 1.2V	4GB	TLGD44G2400HC1601
		CL16-16-16-39 1.2V	4GBx2	TLGD48G2400HC16DC01
		CL16-16-16-39 1.2V	8GB	TLGD48G2400HC1601
		CL16-16-16-39 1.2V	8GBx2	TLGD416G2400HC16DC01
		CL16-16-16-39 1.2V	16GB	TLGD416G2400HC1601
		CL16-16-16-39 1.2V	16GBx2	TLGD432G2400HC16DC01

Description	Color	Timings/Voltage	Capacity	Team P/N
TEAM Vulcan UD-D4 2666		CL15-17-17-35 1.2V	4GB	TLGD44G2666HC15B01
		CL15-17-17-35 1.2V	4GBx2	TLGD48G2666HC15BDC01
		CL15-17-17-35 1.2V	4GBx4	TLGD416G2666HC15BQC01
		CL15-17-17-35 1.2V	8GB	TLGD48G2666HC15B01
		CL15-17-17-35 1.2V	8GBx2	TLGD416G2666HC15BDC01
		CL15-17-17-35 1.2V	8GBx4	TLGD432G2666HC15BQC01
		CL15-17-17-35 1.2V	16GB	TLGD416G2666HC15B01
		CL15-17-17-35 1.2V	16GBx2	TLGD432G2666HC15BDC01
		CL15-17-17-35 1.2V	16GBx4	TLGD464G2666HC15BQC01
TEAM Vulcan UD-D4 2800	Gray	CL16-18-18-38 1.2V	4GBx2	TLGD48G2800HC16CDC01
		CL16-18-18-38 1.2V	4GBx4	TLGD416G2800HC16CQC01
		CL16-18-18-38 1.2V	8GBx2	TLGD416G2800HC16CDC01
		CL16-18-18-38 1.2V	8GBx4	TLGD432G2800HC16CQC01
		CL16-18-18-38 1.2V	16GBx2	TLGD432G2800HC16CDC01
		CL16-18-18-38 1.2V	16GBx4	TLGD464G2800HC16CQC01
TEAM Vulcan UD-D4 3000		CL16-18-18-38 1.35V	4GBx2	TLGD48G3000HC16CDC01
		CL16-18-18-38 1.35V	4GBx4	TLGD416G3000HC16CQC01
		CL16-18-18-38 1.35V	8GBx2	TLGD416G3000HC16CDC01
		CL16-18-18-38 1.35V	8GBx4	TLGD432G3000HC16CQC01
		CL16-18-18-38 1.35V	16GBx2	TLGD432G3000HC16CDC01
		CL16-18-18-38 1.35V	16GBx4	TLGD464G3000HC16CQC01
TEAM Vulcan UD-D4 3200		CL16-18-18-38 1.35V	4GBx2	TLGD432G3200HC16CDC01
		CL16-18-18-38 1.35V	4GBx4	TLGD416G3200HC16CQC01
		CL16-18-18-38 1.35V	8GBx2	TLGD416G3200HC16CDC01
		CL16-18-18-38 1.35V	8GBx4	TLGD432G3200HC16CQC01
		CL16-18-18-38 1.35V	16GBx2	TLGD48G3200HC16CDC01
		CL16-18-18-38 1.35V	16GBx4	TLGD464G3200HC16CQC01

Above technical information is based on industry standard data and tested to be reliable. However, Team makes no warranty, either expressed or implied, as to its accuracy and assumes no liability in connection with the use of this product.

Team reserves the right to make changes in specifications at any time without prior notice.