Dell EMC PowerEdge T550 Technical Specifications

Thermal restriction matrix

Table 1. Thermal restriction matrix

DRIVE CONFIGURATION	PROCESSOR	FANS	CPU TDP	FAN REDUNDANCY	CPU HSK		GPU SUPPORT		TBU SUPPORT	CPU BLANK
					TDP>150 W	TDP<=150 W	GPU<=75 W	GPU>75 W		
8 x 3.5	1	STD x3	<=185	No	HPR HSK	STD HSK	No	No	No	Yes
	1	STD x6	<=220	Yes			No	No	No	Yes
	1	HPR x3	<=220	No			Yes	No	No	Yes
	1	HPR x5*	<=220	Yes			Yes/No	No	Yes	Yes
	1	HPR x6	<=220	Yes			Yes	Yes	No	Yes
	2	STD x4	<=185	No			No	No	No	No
	2	STD x8	<=220	Yes			No	No	No	No
	2	HPR x4	<=220	No			Yes	No	No	No
	2	HPR x7*	<=220	Yes			Yes/No	No	Yes	No
	2	HPR x8	<=220	Yes			Yes	Yes	No	No

DRIVE CONFIGURATION	PROCESSOR	FANS	CPU TDP	FAN REDUNDANCY	CPU HSK		GPU SUPPORT		TBU SUPPORT	CPU BLANK
					TDP>150 W	TDP<=150 W	GPU<=75 W	GPU>75 W		
8 x 2.5 16 x 2.5 24 x 2.5	1 or 2	STD x4	<=185	No	HPR HSK	STD HSK	No	No	No	Yes fo proce
	1 or 2	STD x8	<=220	Yes			No	No	No	
	1 or 2	HPR x4	<=220	No			Yes	No	No	
	1 or 2	HPR x7*	<=220	Yes			Yes/No	No	Yes	
	1 or 2	HPR x8	<=220	Yes			Yes	Yes	No	
8 x 3.5 + 8 x 2.5 (NVMe)	1 or 2	HPR x4	<=220	No	HPR HSK	STD HSK	Yes	No	No	Yes fo proce
	1 or 2	HPR x7*	<=220	Yes			Yes/No	No	Yes	
	1 or 2	HPR x8	<=220	Yes			Yes	Yes	No	

NOTE OCP shroud are required for all drive configurations, even if the OCP card is not installed.

NOTE DIMM blanks are required for CPU TDP>185 W, but are not required for CPU TDP<=185 W.

NOTE GPU blank is required at GPU riser slot 2, when a GPU>75 W is installed at GPU riser slot 1.

NOTE HDD blanks are required for empty HDD slots.

NOTE *x5 and x7 fan count is applicable only for TBU configuration. Systems without TBU should not use x5 and x7 fan counts. For TBU configuration, ambient temperature is < 35C.

NOTE When GPU is selected, HPR fan must be required.

NOTE GPU>75W must require fan redundancy (Fan quantity = 6 or 8).

NOTE GPU>75 W does not support TBU.

NOTE STD fans can also be upgraded to HPR fans.

Thermal matrix for all configurations

Table 2. Thermal matrix for all configurations

-		8X, 16X, 24X 2.5-INCH SAS/SATA CONFIGURATION 1				8X 3.5-INCH CONFIGURATION 2				8X 3.5-INCH + 8X 2.5-INCH NVME CONFIGURATION 3	
Fan		STDx4	STDx8	HPRx4	HPRx7 x8	STDx3 x4	STDx6 x8	HPRx3 x4	HPRx5 x6 x7 x8	HPRx4	HPRx7 x8
Fan redundancy		No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Maximum DIMM power		12 W	12 W	12 W	12 W	12 W	12 W	12 W	12 W	12 W	12 W
CPU TDP	105 W	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK
	120 W	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK
	125 W	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK
	135 W	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK
	150 W	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK	STD HSK
	165 W	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK
	185 W	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK
	205 W	Not supported	HPR HSK	HPR HSK	HPR HSK	Not supported	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK
	220 W	Not supported	HPR HSK	HPR HSK	HPR HSK	Not supported	HPR HSK	HPR HSK	HPR HSK	HPR HSK	HPR HSK