

## Instructions on Limiting TDP Under BIOs for Intel® NUC 10 (Frost Canyon)

Date: 16/07/2020

1.) Latest BIOs version: FNCML357 (3/12/2020)

https://downloadcenter.intel.com/download/29458/BIOS-Update-FNCML357-?product=188811

2.) To get to the BIOS setting ---> Boot up the system, when you see the screen with the Intel NUC logo, immediately press the F2 function key for a few times.



3.) Select the 'Power' tab and the default setting is as below:

Bios Version: FNCML357.0039.2020.0312.1734 Processor: Intel(R) Core(TM) i7-10710U CPU @ 1.10GHz	Total M System	emory: 8 GB Date & Time: 07/16/2020	10:32:34 PM	(inte
Main Advanced Cooling P	Performance Security	Power Boot		
Power				
			Information	
	-		Intel® Turbo Boost Technology will processor power usage to the Susta Mode Power Limit over a moving av	control ained verage
Max Performance Enabled			time window: Sustained Mode Time (specified in seconds).	
Intel® Dynamic Power Technology	Energy Efficient Performance	-		
Processor Power Efficiency Policy	High Performance	-		
Package Power Limit 1 (Sustained)	30			
Package Power Limit 2 (Burst Mode)	64			
Package Power Time Window (Tau)	28	-		
Secondary Power Settings				
F1 - Help †↓ - S	elect Item	F3 - Previous Values	F9 - Optimal D	Defaults
ESC - Discard and Exit → ← - S	elect Menu	Enter - Select Sub-Menu	F10 - Save an	d Exit

- 4.) Change the parameters:
  - i.) 'Package Power Limit 1 (Sustained)' to '25'
  - ii.) 'Package Power Limit 2 (Burst Mode)' to '25'
  - iii.) 'Package Power Time Window (Tau)' to '0'

Bios Version: FNCML357.0039.2020.0312.1734 Processor: Intel(R) Core(TM) i7-10710U CPU @ 1.10GHz	To Sy	tal Memory: 8 GB stem Date & Time: 07/16/2020	10:31:53 PM	í
		Power Boot		
Power			Informatio	nn
			Intel® Turbo Boost Technol processor power usage to t	logy will control he Sustained
Max Performance Enabled			Mode Power Limit over a m time window: Sustained Mo	oving average ode Time
Intel® Dynamic Power Technology			(specified in seconds).	
Processor Dowor Efficiency Delicy	Energy Efficient Performan			
riocessol rower Eniciency folicy	High Performance	-		
Package Power Limit 1 (Sustained)	25			
Package Power Limit 2 (Burst Mode)	25			
Package Power Time Window (Tau)				
Secondary Power Settings				
F1 - Help ↑↓ - Select Item ESC - Discard and Exit →+ Select Menu		F3 - Previous Values	F9 - (	Optimal Defaults
		cinter - Select Sub-Menu	F10 -	Save and Exit

5.) Press 'F10' to Save settings

## Reference

- 1.) <u>https://www.intel.co.uk/content/www/uk/en/products/processors/core/i7-processors/i7-10710u.html</u>
- 2.) <u>https://ark.intel.com/content/www/us/en/ark/products/195436/intel-core-i5-10210u-processor-6m-cache-up-to-4-20-ghz.html</u>
- 3.) <u>https://ark.intel.com/content/www/us/en/ark/products/196451/intel-core-i3-10110u-processor-4m-cache-up-to-4-10-ghz.html</u>