

DESPACHO		REFERENTE AO DOCUMENTO	FOLHA
NÚMERO	EXERCÍCIO		225
065	2023	PROCESSO 22/2022	RUBRICA

Ao FMS  
CGC:

Seguem as considerações:

Item 1 – O equipamento ofertado **atende** ao edital, embora o processador ofertado (i5-13400) seja de 2.5GHz de Clockspeed, em modo turbo alcança até 4.6 GHz, com *cores* e *threads* superiores ao processador i5-10500 que possui clock de 3.1 GHz, conforme solicitado no processo, além de ser de 13ª geração, bem mais atualizada que o i5-10500.

Enviamos em anexo um CPU Benchmark comparativo entre os processadores que comprovam a superioridade de performance.

Volta Redonda, 10 de maio de 2023.

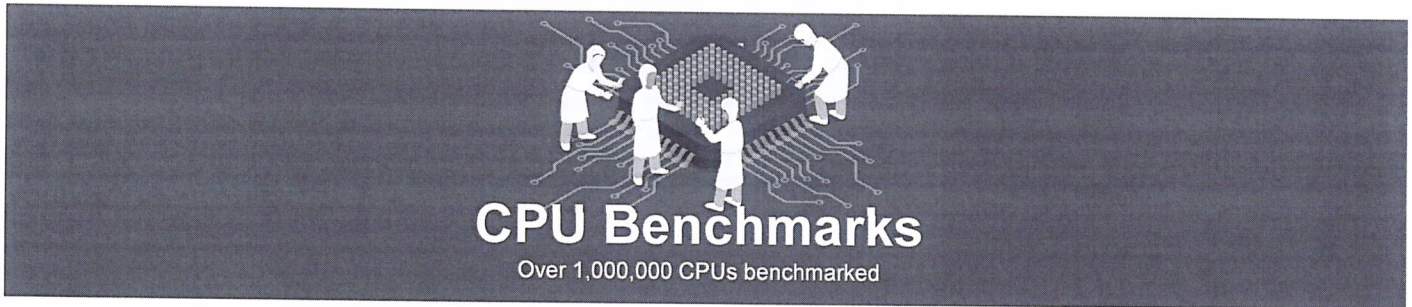
Atenciosamente



Edvaldo Luiz Silva

Diretor Presidente





## Intel Core i5-13400 vs Intel Core i5-10500 @ 3.10GHz

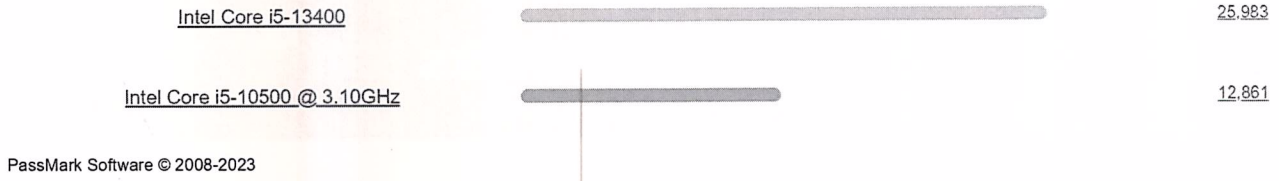
The values for the CPUs below are determined from thousands of [PerformanceTest](#) benchmark results and are updated daily.

- The first section will show basic information for each CPU selected.
- The additional graphs shows the CPU Mark and Single Thread values of each CPU selected.
- An accompany graph, if price data is available, will shows the value for money, in terms of the CPU Mark/Thread Rating per dollar.
- The last section will show approximate yearly running costs for the CPUs.

	Intel Core i5-13400	Intel Core i5-10500 @ 3.10GHz
Price	\$232.68 - BUY	\$185 - BUY
Socket Type	FCLGA1700	FCLGA1200
CPU Class	Desktop	Desktop
Clockspeed	2.5 GHz	3.1 GHz
Turbo Speed	Up to 4.6 GHz	Up to 4.5 GHz
# of Physical Cores	10 (Threads: 16)	6 (Threads: 12)
Cache	L1: 864KB, L2: 9.5MB, L3: 20MB	L1: 256KB, L2: 1.0MB, L3: 12MB
Max TDP	65W	65W
<u>Yearly Running Cost</u>	\$11.86	\$11.86
Other	Intel UHD Graphics 730	Intel UHD Graphics 630
First Seen on Chart	Q3 2022	Q2 2020
# of Samples	88	500
<u>CPU Value</u>	111.7	69.5
Single Thread Rating	3679	2777
(% diff. to max in group)	(0.0%)	(-24.5%)
CPU Mark	<b>25983</b>	<b>12861</b>
(% diff. to max in group)	(0.0%)	(-50.5%)

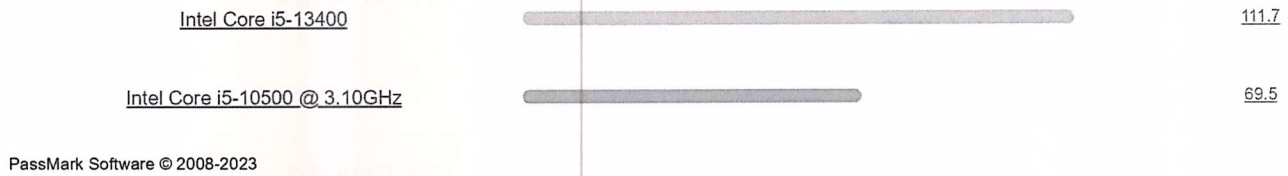
### CPU Mark Rating

As of 10th of May 2023 - Higher results represent better performance



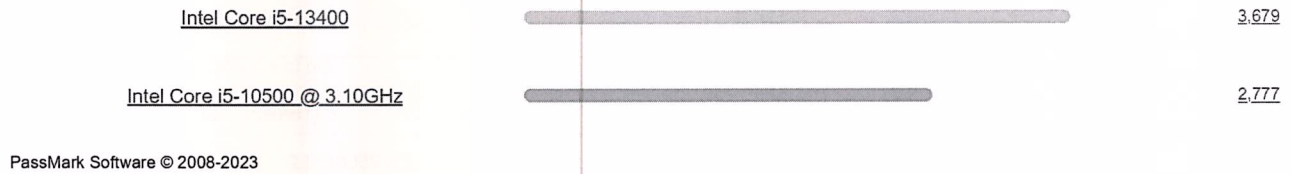
### CPU Value (CPU Mark / \$Price)

As of 10th of May 2023 - Higher results represent better value



### CPU Single Thread Rating

As of 10th of May 2023 - Higher results represent better performance



## Estimated Energy Usage Cost

### Estimated Energy Adjustable Values

Average hours of use per day

8

Average CPU Utilization (0-100%)<sup>1</sup>

25

Power cost, \$ per kWh<sup>2</sup>

0.25

<sup>1</sup> Average user usage is typically low and can vary from task to task. An estimate load 25% is nominal.

<sup>2</sup> Typical power costs vary around the world. Check your last power bill for details. Values of \$0.15 to \$0.45 per kWh are typical.

**Intel Core i5-13400**

**Intel Core i5-10500 @ 3.10GHz**

Max TDP

65W

65W