

# CPU Benchmarks

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## Intel Core i3-8145U @ 2.10GHz

Price and performance details for the Intel Core i3-8145U @ 2.10GHz can be found below. This is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

- The first graph shows the relative performance of the CPU compared to the 10 other common (single) CPUs in terms of PassMark CPU Mark.
- The 2nd graph shows the value for money, in terms of the CPUmark per dollar.
- The pricing history data shows the price for a single Processor. For multiple Processors, multiply the price shown by the number of CPUs.

<p><a href="#">Home</a> CPUS</p> <hr/> <p> High End</p> <p>High Mid Range</p> <p>Low Mid Range</p> <p>Low End</p> <hr/> <p> Best Value (On Market)</p> <p>Best Value XY Scatter</p> <p>Best Value (All time)</p> <hr/> <p> New Desktop</p> <p>New Laptop</p> <hr/> <p> Single Thread</p> <p>Systems with Multiple CPUs</p> <p>Overclocked</p> <p>Power Performance</p> <p>CPU Mark by Socket Type</p> <p>Cross-Platform CPU Performance</p> <hr/> <p> CPU Mega List</p> <p>Search Model</p> <hr/> <p> Compare <sup>0</sup></p>	<p><b>Intel Core i3-8145U @ 2.10GHz</b></p> <table border="1"> <tr> <td><b>Description:</b> Intel UHD Graphics 620</td> <td><b>Class:</b> Laptop</td> </tr> <tr> <td><b>Socket:</b> FCBGA1528</td> <td><b>Clockspeed:</b> 2.1 GHz</td> </tr> <tr> <td><b>Turbo Speed:</b> 3.9 GHz</td> <td><b>Cores:</b> 2</td> </tr> <tr> <td></td> <td><b>Threads:</b> : 4</td> </tr> <tr> <td><b>TDP Down:</b> 10 W</td> <td><b>TDP Up:</b> : 25 W</td> </tr> <tr> <td colspan="2"><b>Typical TDP:</b> 15 W</td> </tr> <tr> <td colspan="2"><b>Other names:</b> Intel(R) Core(TM) i3-8145U CPU @ 2.10GHz</td> </tr> <tr> <td colspan="2"><b>CPU First Seen on Charts:</b> Q4 2018</td> </tr> <tr> <td colspan="2"><b>CPUmark/\$Price:</b> 13.23</td> </tr> <tr> <td colspan="2"><b>Overall Rank:</b> 1019</td> </tr> <tr> <td colspan="2"><b>Last Price Change:</b> <a href="#">\$281.00 USD</a> (2018-07-01)</td> </tr> </table> <p><small><sup>3</sup> Actual CPU performance may differ from the average depending on the CPU power/performance trade off specified by the vendor.</small></p>	<b>Description:</b> Intel UHD Graphics 620	<b>Class:</b> Laptop	<b>Socket:</b> FCBGA1528	<b>Clockspeed:</b> 2.1 GHz	<b>Turbo Speed:</b> 3.9 GHz	<b>Cores:</b> 2		<b>Threads:</b> : 4	<b>TDP Down:</b> 10 W	<b>TDP Up:</b> : 25 W	<b>Typical TDP:</b> 15 W		<b>Other names:</b> Intel(R) Core(TM) i3-8145U CPU @ 2.10GHz		<b>CPU First Seen on Charts:</b> Q4 2018		<b>CPUmark/\$Price:</b> 13.23		<b>Overall Rank:</b> 1019		<b>Last Price Change:</b> <a href="#">\$281.00 USD</a> (2018-07-01)		<p><b>Average CPU Mark</b></p> <div style="text-align: center;"> <p><b>3719</b></p> </div> <p>Single Thread Rating: 2090                  Cross-Platform Rating: 6718                  Samples: 276*                  *<a href="#">Margin for error:</a> Low</p> <p style="text-align: center;"><a href="#">+ COMPARE</a></p> <p style="text-align: center;"><small>PerformanceTest V9 CPU Mark: 5,449 Thread: 2,164</small></p>
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☆ Common

🏠 CPU Benchmarks ▾

- 📊 AMD vs Intel Market Share
- 📈 Year on Year Performance

from the Featured Merchants below:



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**Pricing History**



**CPU Mark Relative to Top 10 Common Laptop CPUs**

*As of 17th of September 2020 - Higher results represent better performance*

Processor	Average CPU Mark
<a href="#">AMD Ryzen 7 4800H</a>	<a href="#">19,391</a>
<a href="#">Intel Core i7-9750H @ 2.60GHz</a>	<a href="#">11,409</a>
<a href="#">AMD Ryzen 5 4500U</a>	<a href="#">11,241</a>
<a href="#">Intel Core i7-8750H @ 2.20GHz</a>	<a href="#">10,198</a>
<a href="#">Intel Core i5-9400F @ 2.90GHz</a>	<a href="#">9,592</a>
<a href="#">AMD Ryzen 5 3550H</a>	<a href="#">8,135</a>
<a href="#">AMD Ryzen 5 3500U</a>	<a href="#">7,141</a>
<a href="#">Intel Core i7-7700HQ @ 2.80GHz</a>	<a href="#">6,948</a>

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<a href="#">AMD Ryzen 5 2500U</a>	<a href="#">6,621</a>
Intel Core i3-8145U @ 2.10GHz	3,719

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

As of 17th of September 2020 - Higher results represent better value

Processor	CPU Mark / \$Price
<a href="#">Intel Core i5-9400F @ 2.90GHz</a>	<a href="#">64.67</a>
<a href="#">Intel Core i7-9750H @ 2.60GHz</a>	<a href="#">28.88</a>
<a href="#">Intel Core i7-8750H @ 2.20GHz</a>	<a href="#">25.82</a>
<a href="#">Intel Core i7-7700HQ @ 2.80GHz</a>	<a href="#">18.38</a>
<a href="#">Intel Core i7-6700HQ @ 2.60GHz</a>	<a href="#">17.13</a>
Intel Core i3-8145U @ 2.10GHz	13.23
<a href="#">AMD Ryzen 5 3500U</a>	<a href="#">0.00</a>
<a href="#">AMD Ryzen 7 4800H</a>	<a href="#">0.00</a>
<a href="#">AMD Ryzen 5 4500U</a>	<a href="#">0.00</a>
<a href="#">AMD Ryzen 5 2500U</a>	<a href="#">0.00</a>
<a href="#">AMD Ryzen 5 3550H</a>	<a href="#">0.00</a>

## Last 5 Baselines for Intel Core i3-8145U @ 2.10GHz

Most recent listed first

Baseline	CPU Mark
<a href="#">BL1295617 - Sep 15 2020</a>	<a href="#">4095</a>
<a href="#">BL1291065 - Sep 04 2020</a>	<a href="#">3784</a>
<a href="#">BL1289859 - Sep 02 2020</a>	<a href="#">4169</a>
<a href="#">BL1287830 - Aug 28 2020</a>	<a href="#">3387</a>
<a href="#">BL1283976 - Aug 20 2020</a>	<a href="#">3762</a>

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As of 17th of September 2020 - Higher results represent better performance

Processor	Average CPU Mark
<a href="#">Intel Core i3-8145U @ 2.10GHz</a>	<a href="#">3,719</a>
<a href="#">Intel Core m3-8100Y @ 1.10GHz</a>	<a href="#">3,036</a>
<a href="#">Intel Core i3-8130U @ 2.20GHz</a>	<a href="#">3,648</a>
<a href="#">Intel Core i3-7100H @ 3.00GHz</a>	<a href="#">3,460</a>
<a href="#">Intel Core i5-7300U @ 2.60GHz</a>	<a href="#">3,711</a>
<a href="#">Intel Core i5-4210M @ 2.60GHz</a>	<a href="#">2,866</a>
<a href="#">Intel Core i5-6287U @ 3.10GHz</a>	<a href="#">3,378</a>
<a href="#">Intel Core i5-6442EQ @ 1.90GHz</a>	<a href="#">4,519</a>
<a href="#">AMD Ryzen 3 3200U</a>	<a href="#">4,104</a>
<a href="#">AMD A8-7680</a>	<a href="#">3,618</a>
<a href="#">Intel Core i5-4330M @ 2.80GHz</a>	<a href="#">3,217</a>
<a href="#">Intel Core i3-10110Y @ 1.00GHz</a>	<a href="#">3,639</a>
<a href="#">Intel Core i3-8145UE @ 2.20GHz</a>	<a href="#">4,181</a>

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