

# CPU Benchmarks

Over 1,000,000 CPUs benchmarked

## Intel Pentium Gold G6400 @ 4.00GHz vs AMD Athlon 3000G vs Intel Core i5-10400 @ 2.90GHz vs AMD Ryzen 5 PRO 4650G

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

|                                     | <div> <div>×</div> <div> <b>Intel Pentium</b><br/> <b>Gold G6400 @</b><br/> <b>4.00GHz</b> </div> </div> | <div> <div>×</div> <div> <b>AMD Athlon</b><br/> <b>3000G</b> </div> </div> | <div> <div>×</div> <div> <b>Intel Core</b><br/> <b>i5-10400 @</b><br/> <b>2.90GHz</b> </div> </div> | <div> <div>×</div> <div> <b>AMD Ryzen 5</b><br/> <b>PRO 4650G</b> </div> </div> <div> <div>+</div> <div>ADD</div> </div> |
|-------------------------------------|--|--|---|--|
| Price                               | <a href="#">\$64.99</a>  | <a href="#">\$54.99</a>  | <a href="#">\$179.99</a><br>BUY NOW!  | <a href="#">\$289.99</a><br>BUY NOW!   |
| Socket Type                         | FCLGA1200  | AM4  | FCLGA1200   | AM4  |
| CPU Class                           | Desktop  | Desktop  | Desktop   | Desktop  |
| Clockspeed                          | 4.0 GHz  | 3.5 GHz  | 2.9 GHz   | 3.7 GHz  |
| Turbo Speed                         | Not Supported  | Not Supported  | Up to 4.3 GHz   | Up to 4.2 GHz  |
| # of Physical Cores                 | 2 (Threads: 4)   | 2 (Threads: 4)   | 6 (Threads: 12)   | 6 (Threads: 12)  |
| Max TDP                             | 58W  | 35W  | 65W   | 65W  |
| <a href="#">Yearly Running Cost</a> | \$10.59  | \$6.39   | \$11.86   | \$11.86  |
| First Seen on Chart                 | Q2 2020  | Q4 2019  | Q2 2020   | Q2 2020  |
| # of Samples                        | 22   | 151  | 570   | 174  |
| Cross-Platform Rating               | 8767   | 7065   | 24718   | 24465  |
| Single Thread Rating                | 2472   | 1985   | 2595  | 2672   |
| CPU Mark                            | <b>4172</b>  | <b>4449</b>  | <b>12465</b>  | <b>16552</b>   |

<sup>1</sup> - Last seen price from our affiliates [NewEgg.com](#) & [Amazon.com](#).

*As of 15th of April 2021 - Higher results represent better performance*

|   |  |                               |
|---|--|-------------------------------|
| <a href="#"><u>Intel Pentium Gold G6400 @ 4.00GHz</u></a> |  | <a href="#"><u>4,172</u></a>  |
| <a href="#"><u>AMD Athlon 3000G</u></a>                   |  | <a href="#"><u>4,449</u></a>  |
| <a href="#"><u>Intel Core i5-10400 @ 2.90GHz</u></a>      |  | <a href="#"><u>12,465</u></a> |
| <a href="#"><u>AMD Ryzen 5 PRO 4650G</u></a>              |  | <a href="#"><u>16,552</u></a> |

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

*As of 15th of April 2021 - Higher results represent better value*

|   |  |                              |
|---|--|------------------------------|
| <a href="#"><u>Intel Pentium Gold G6400 @ 4.00GHz</u></a> |  | <a href="#"><u>64.20</u></a> |
| <a href="#"><u>AMD Athlon 3000G</u></a>                   |  | <a href="#"><u>80.90</u></a> |
| <a href="#"><u>Intel Core i5-10400 @ 2.90GHz</u></a>      |  | <a href="#"><u>69.25</u></a> |
| <a href="#"><u>AMD Ryzen 5 PRO 4650G</u></a>              |  | <a href="#"><u>57.08</u></a> |

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### CPU Single Thread Rating

*As of 15th of April 2021 - Higher results represent better performance*

|   |  |                              |
|---|--|------------------------------|
| <a href="#"><u>Intel Pentium Gold G6400 @ 4.00GHz</u></a> |  | <a href="#"><u>2,472</u></a> |
| <a href="#"><u>AMD Athlon 3000G</u></a>                   |  | <a href="#"><u>1,985</u></a> |
| <a href="#"><u>Intel Core i5-10400 @ 2.90GHz</u></a>      |  | <a href="#"><u>2,595</u></a> |
| <a href="#"><u>AMD Ryzen 5 PRO 4650G</u></a>              |  | <a href="#"><u>2,672</u></a> |



<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.

|                                  | <u>Intel Pentium Gold G6400 @ 4.00GHz</u> | <u>AMD Athlon 3000G</u> | <u>Intel Core i5-10400 @ 2.90GHz</u> | <u>AMD Ryzen 5 PRO 4650G</u> |
|----------------------------------|---|-------------------------|--------------------------------------|------------------------------|
| Max TDP                          | 58W                                       | 35W                     | 65W                                  | 65W                          |
| Power consumption per day (kWh)  | 0.1                                       | 0.1                     | 0.1                                  | 0.1                          |
| Running cost per day             | \$0.029                                   | \$0.018                 | \$0.033                              | \$0.033                      |
| Power consumption per year (kWh) | 42.3                                      | 25.6                    | 47.5                                 | 47.5                         |
| Running cost per year            | \$10.59                                   | \$6.39                  | \$11.86                              | \$11.86                      |

Shown CPU power usage is based on linear interpolation of Max TDP (i.e. max load). Actual CPU power profile may vary.

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