

Pascal TITAN X vs. the GTX 1080 – First Benchmarks Revealed!

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Performance Summary Charts & Conclusion

Performance summary chart

Here are the summary charts of 5 games and 2 synthetic tests. The highest settings are always chosen and it is usually DX11; DX12 is picked above DX11 where available, and the settings are ultra or maxed. Specific settings are listed on the performance charts. The benches were run at 2560×1440 and at 3840×2160.

All results, except for FireStrike and Time Spy, show **average** framerates and higher is always better. **Minimum** frame rates are shown next to the averages when they are available, but they are in *italics* and in a slightly smaller font. In-game settings are fully maxed out and they are identically high or ultra across all platforms.

Benchmarks	Resolution	GTX 1080	TITAN X
FireStrike	Ultra 4K	5109	6566
	Extreme	9531	12037
Time Spy - DX12	2560×1440	6736	8090
2015 DX11 Benchmark		GTX 1080	TITAN X
DiRT Rally - 12/2015	3840×2160	50.9 42.2	67.4 56.8
	Ultra Preset + 8xAA 2560×1440	93 78	122.4 101

The TITAN X wins every game benchmark by a significant margin of at least 15% over the world's second fastest card, the GTX 1080.

Here is [Tech of Tomorrow's](#) video of the unboxing and the performance using our benchmarks.

Let's head for our conclusion.

Conclusion

This has been quite an enjoyable if a very short 8-hour exploration for us in evaluating the new Pascal [TITAN X](#). It did extraordinarily well performance-wise comparing it to the [GTX 1080](#) in 5 games, and we look forward to running all 25 games of our benchmark suite in Part 2 versus the GTX 1080 using 3 resolutions instead of just two.

We are totally impressed with this top performing 6-pin plus 8-pin PCIe cabled Pascal TITAN X chip. Priced at \$1200, it is certainly expensive but it stands alone as the world's fastest gaming GPU. On top of that, it is a hybrid card well suited for Single Precision Compute and for scientific applications.

The [TITAN X](#) is an ideal card for [4K](#) and it may well be the first [video card](#) to be able to handle maxed out settings at that extreme resolution.

Pros

The reference design cooling is quiet and efficient; the card stays cool even on a hot Summer-like day.

Premium VR becomes very possible with the TITAN with Simultaneous Multi-projection.

GameWorks brings new features to gaming and to VR.

New Fast Sync allows for high performance decoupling from the [monitor](#), without tearing at very high frame rates. G-SYNC is useful for all other situations

There is a solid feel to the [TITAN X](#) and the industrial design is eye-catching.

The TITAN X is significantly faster than the second fastest card in the world, the GTX 1080.

Cons

Price. It is also out of stock right now.



The Verdict:

If you want the fastest [video card](#) available today, the TITAN X at \$1200 is in a class by itself, easily topping the performance of the GTX 1080 which was the fastest card until today at \$699.

We would like to award the TITAN X the *BabelTechReviews Editor's Choice Award* for gamers who demand the fastest single-GPU card, where price is no object.

We do not know what the future will bring, or even if Nvidia will bring out a [GTX 1080 Ti](#), but the TITAN X brings the top performer to the Pascal GeForce family right now. With great forward looking features, you can be assured of immersive gaming by picking this card for 4K, 2K, or even 2560×1440 at a minimum, and especially for outstanding VR performance.

Stay tuned, there is a lot coming from us at BTR. Next, in our continuing TITAN X series, we will test the TITAN X with our full benchmark suite versus the [GTX 1080](#) and later, versus the Maxwell Titan X and the GTX 980 Ti.

However, first, we have a brand new card to evaluate on Thursday morning. And don't forget to check out BTR's [tech community](#)! You can feel free to comment there or in the comments below.

Happy Gaming!