

# Buyers Guide | C1 2022 Acer<sup>®</sup> Nitro 50 Desktop N50-640-UR12







#### It Lies Within

The fiery-accented, black metal Nitro 50 gaming PC is all the fuel you need for those high frame, lag-free game sessions. Go on and switch settings to ultra with an injection of the latest 12th Gen Intel Core™ iS Processor and GeForce RTX™ 3060 graphics. Next, toss in its advanced cooling, stellar audio capabilities, and high speed connectivity and you quickly see why the Nitro 50 delivers a knockout blow to the competition!

#### High Level Specifications

- 12th Generation Intel® Core™ i5-12400F 6-Core Processor (Up to 4.4GHz)
- NVIDIA® GeForce® RTX 3060 Graphics with 12GB of GDDR6 Video Memory
- 16GB DDR4 3200MHz Memory
- 512GB M.2 2280 PCIe SSD and 1TB 7200RPM SATA Hard Drive
- DTS·X® Ultra
- Intel<sup>®</sup> Wireless Wi-Fi 6E AX211 (Gig+) 802.11ax supporting dual-stream 2.4GHz, 5GHz and 6GHz bands featuring 2x2 MU-MIMO technology
- Realtek® 8118AS Dragon 10/100/1000 Gigabit Ethernet LAN (RJ-45 Port)
- Bluetooth 5.2
- 1 USB 3.2 Type C Gen 2x2 port (up to 20 Gbps) (Front)
- 1 USB 3.2 Gen 2 Port (Front)
- 2 USB 3.2 Gen 1 Ports (Rear)
- 4 USB 2.0 Ports (Rear)
- 3 Display Ports and 1 HDMI 2.1 Port
- Windows 11 Home

#### What's in the Box

- Desktop
- USB Keyboard USB Mouse
- Power Cord
- **Key Features**

# Windows 11 dts intel CORE Wi Fi 6 i5

#### Web Description

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Acer Nitro 50 N50-640-UR12 Desktop, 12th Gen Intel Core i5-12400F, GeForce RTX 3060 Graphics, 16GB DDR4 3200MHZ Memory, 512 GB M.2 2280 PCIe SSD, 1TB 7200RPM HDD, DTS: X Ultra, Intel Wireless Wi-Fi 6E AX211 (Gig+) 802.11ax, USB Keyboard and Mouse, Windows 11 Home



#### Built to Conquer

Fi

1000Mbps

Gigabit LAN

**USB 3.2** 

Reversible type-C connecto

plugging it in upside down

Stay Connected

The fiery-accented, black metal Nitro 50 gaming PC sets the mood for an intense journey into the realm of gaming. The expertly crafted 18 liter chassis fits neatly on your desk or on the floor.

High-speed Intel® Wi-Fi 6E AX211 (Gig+) and Realtek Dragon LAN work hard to

keep our pings low and joys high. Connect, zip through your transfer, done! Easy

providing ultra-fast data transfers and quick device charging in a port that is one-

access front I/O ports including USB 3.2 Gen 2 and USB 3.2 Type C Gen 2x2

third the size of a current USB Port and reversible - no need to worry about



#### **Process a New Reality**

The latest 12th Gen Core i5 processor from Intel® delivers unmatched speed and intelligence, enabling impressive gaming, productivity and creating experiences with faster Wi-Fi 6E connectivity. When you're challenging your buddies in the latest battle, you'll be confident knowing you've got the power of an 12th Generation Intel® Core™ processor.



#### Dive Into DTS: X® Ultra

Turn any pair of headphones or speakers into a high-end 360° surround sound system - enabling you to experience your favorite movies, music and games with real-world spatial sound.



#### **Lightening-fast Graphics**

Turn up the heat and switch settings on max with the NVIDIA® GeForce RTX 3060 GPU. Powered by the award-winning Ampere architecture-this powerhouse delivers all the latest tech, such as AI Rendering NVIDIA DLSS - so you can hit that smooth, seamless experience with practically no lag.



#### A Sense of Control

NitroSense is the ultimate tool to control and customize your gaming experience from one place. Exercise control over every aspect of your gaming PC. Monitor fan speed and adjust in real time by setting fans to automatic, customizing their speed or setting them to max when the heat is on.



## **Detailed Product Specifications**

## Processor

12th Generation Intel® Core™ i5-12400F 6-Core Processor 2.5GHz with Single P-Core Turbo Frequency<sup>(1)</sup> of up to 4.4GHz (18MB Smart Cache)

#### Memory

16GB DDR4 3200MHz Memory<sup>(2)</sup> (2 x 8GB), Maximum 32GB 2 DDR4 Slots (Total) | 0 DDR4 Slots (Available)

## Video

NVIDIA® GeForce® RTX 3060 Graphics with 12GB of GDDR6 Video Memory

#### Audio

DTS: X® Ultra

## Hard Drive

512GB M.2 2280 PCIe SSD<sup>(5)</sup> 1TB 7200RPM SATA Hard Drive<sup>(5)</sup>

#### **Optical Drive**

N/A

## **Digital Media Card Reader**

N/A

## Communications

Intel<sup>®</sup> Wireless Wi-Fi 6E AX211 (Gig+) 802.11ax supporting dual-stream 2.4GHz, 5GHz and 6GHz bands featuring 2x2 MU-MIMO technology Realtek<sup>®</sup> 8118AS Dragon 10/100/1000 Gigabit Ethernet LAN (RJ-45 Port) Bluetooth® 5.2

## Input Devices

USB Keyboard and Optical Mouse

## Interfaces

1 - USB 3.2 Type C Gen 2x2 port (up to 20 Gbps) (Front)

- 1 USB 3.2 Gen 2 Port (Front)
- 2 USB 3.2 Gen 1 Ports (Rear)
- 4 USB 2.0 Ports (Rear)
- 3 Display Ports
- 1 HDMI™ 2.1 Port
- 2 Audio Ports (Front)
- 3 Audio Ports (Rear) 1 - Ethernet RJ-45 Port
- Ethernet KJ-45 Port

## **Expansion Slots**

Total	Available
1 - PCI-E x16	0 - PCI-E x16
1 - PCI-E x1	1 - PCI-E x1
3 - M.2	1- M.2

## Expansion Bays

Total	<u>Available</u>
2 - 3.5" HDD	1 - 3.5" HDD

# Power Supply

500W

## **Dimensions (System)**

15.43 (H) x 15.2 (D) x 6.89 (W) inches 392 (H) x 386 (D) x 175 (W) mm

#### **Dimensions (Box)**

19.29 (L) x 9.41 (W) x 20.31 (H) inches 490 (L) x 239 (W) x 516 (H) mm

## Weights

Approximately 16.58 lbs. | 7.52 kg (system unit only) Approximately 22.2 lbs. | 10.07 kg (box)

#### Pallet Quantity

40 units per pallet

## Limited Warranty

1 Year Parts and Labor Limited Warranty with Toll-Free Tech Support<sup>(3)</sup>

# UPC

195133147682

## Part Number

DG.E30AA.002

## Software

Windows 11 Home Microsoft<sup>®</sup> Office Trial<sup>6</sup> Anti-Virus Software Trial<sup>4</sup> Acer Care Center

(1) Overall system performance is based on several PC attributes. GHZ, processor clock speed, is one of the attributes. Efficient-core frequencies are lower to optimize power usage. The frequency cores and core types varies by workload, power consumption and other factors.

(2) Shared system memory may be allocated to support integrated graphics depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by the amount of shared system memory utilized by the graphics solution and resources required by the operating environment.

(3) For a free copy of the standard limited warranty end-users should see a reseller where Acer products are sold or write to Acer America Corporation, Warranty Department, P.O. Box 6137, Temple, TX 76503. TPT displays commonly exhibit a small number of discolored dots, so-called "nonconforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect and, as such, is not covered by the limited warranty or by the upgrade programs. For International travelers warranty Valid only in countries where Acer has an authorized repair facility. For a list of those countries go to http://global.acer.com/support/itw.htm. or call 800-816-2237. Services and response times may vary in countries outside the U.S. and Canada

(4) Internet access required. 30-day trial.

(5) 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer eRecovery Management utilizes up to 8 GB (10 GB with Microsoft® Office Starter 2010 Trial) of the stated hard disk capacity as dedicated backup space.

(6) Microsoft Office Trial included. After or during the 30-day trial, purchase an Office Product Key to activate one of the following Office suites preloaded on this PC: Office Home and Student, Office Home and Business, Office Professional.

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