

Navitas and GaNFast™ GaN-Based Chargers Become the Next Must-Have Fashion Accessory

From Doraemon™ to One Piece™ and 'League of Legends', colors, shapes and iconic imagery are brightening the world of fast mobile charging



Navitas Semiconductor, the industry-leader in gallium nitride (GaN) power integrated circuits (ICs), is helping elevate fast mobile charging beyond function and into the world of fashion as colors, new shapes and iconic images increasingly define next-generation products based on its GaNFast™ IC technology.

With power ratings from 30W to 200W, GaN-based chargers are increasingly important accessories for consumers looking to charge phones, tablets and laptops in the shortest possible time. GaN is a next-generation semiconductor technology that runs up to 20x faster than legacy silicon chips. Navitas' proprietary GaN power ICs integrate GaN power (FET) and GaN drive plus control and protection in a single SMT package. These 'GaNFast' power ICs become easy-to-use, high-speed, high-performance 'digital-in, power-out' building blocks and deliver up to 3x faster charging in half the size and weight, and with up to 40% energy savings compared with earlier silicon solutions.

As well as the benefits of delivering rapid charging in an ultra-compact, lightweight, portable device, GaN-based chargers are also becoming 'must-have' accessories for fashion-conscious consumers thanks to the innovative designs being created by charger manufacturers.

"Chargers used to be big, plain, and boring. Now, with gallium nitride power ICs, the world of fast charging has creatively blossomed with a wide variety of colors, shapes, customization options and branding." - Grace Li, Senior Marketing Communications Manager

SlimQ, IDMIx and UIBI, for example, offer customers chargers in a range of different colors, with the UIBI device adding a silky carrying bag to add to its desirability. Meanwhile the latest Sharge 100W device is available in vibrant yellow and Chargeasap is combining powers up to 200W with striking gold and blue color options.

As choice of colors has expanded, so too has charger shape. Good examples of products that break the conventional mold are Lenovo's 'Lipstick' chargers, the Anker One Piece family and Angry Miao's latest 90W CYBERCHARGE charger. Designed in a 'Cyberpunk' style, this charger offers customization through color-coded 'personalized modules'.

To further enhance charger desirability, companies are adding well-known characters to their chargers. This is the case with the latest Smartisan 65W fast charger, which is built on Navitas GaN and features the popular Japanese manga character, Doraemon. Navitas technology can also be found at the heart of new 30W USB-C and 65W 2C+A chargers that mark Anker's collaboration with the "League of Legends" multi-player online battle arena video game.

All of the chargers mentioned here, are available at <https://ganfast.com/products/>

About Navitas

Navitas Semiconductor (Nasdaq: NVTs) is the industry leader in GaN power ICs, founded in 2014. GaN power ICs integrate GaN power with drive, control, sensing and protection to enable faster charging, higher power density and greater energy savings for mobile, consumer, enterprise, eMobility and new energy markets. Over 145 Navitas patents are issued or pending, and over 40 million units have been shipped with zero reported GaN field failures. Navitas rang the Nasdaq opening bell and started trading on Nasdaq on October 20th, 2021.

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