



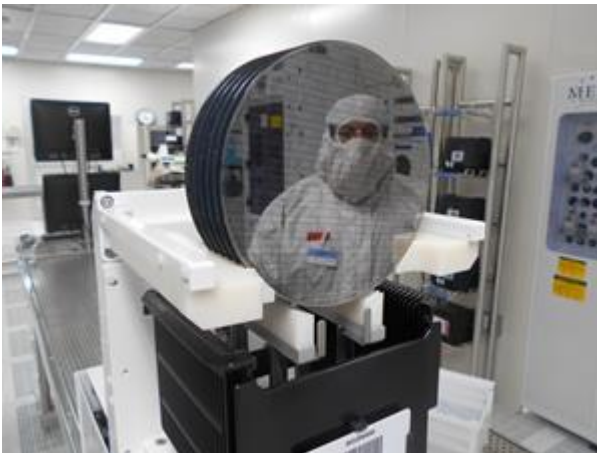
## NXP Advances 5G with New Gallium Nitride Fab in Arizona

September 29, 2020

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- Governor of Arizona joins NXP executives and local, state, federal and international government officials to commemorate virtual opening ceremony with keynote addresses.
- NXP is leading 5G cellular infrastructure expansion with the new 150 mm (6") fab and its 20 years of GaN development expertise focused on power density, gain and linearized efficiency.
- State-of-the-art fab will serve as a hub enabling NXP to innovate faster with strong collaboration between the new internal factory and NXP's R&D team based in the same location.

CHANDLER, Ariz., Sept. 29, 2020 (GLOBE NEWSWIRE) -- NXP Semiconductors N.V. (NASDAQ: NXPI) today announced the grand opening of its 150 mm (6-inch) RF [Gallium Nitride \(GaN\) fab in Chandler, Arizona](#), the most advanced fab dedicated to 5G RF power amplifiers in the United States. The new internal factory combines NXP's expertise as the industry leader in RF power and its high-volume manufacturing know-how, resulting in streamlined innovation that supports the expansion of 5G base stations and advanced communication infrastructure in the industrial, aerospace and defense markets.

The [opening ceremony](#) was marked by keynote addresses and remarks by NXP executives plus federal, state and local government officials, including:

- Arizona Senators Kyrsten Sinema and Martha McSally
- U.S. Representative Greg Stanton
- Arizona Governor Doug Ducey
- City of Chandler Mayor Kevin Hartke
- U.S. Department of Commerce Deputy Under Secretary for International Trade Joseph Semsar
- Ambassador of the Kingdom of the Netherlands to the United States Andre Haspels

In his keynote address, Kurt Sievers, NXP CEO said: "Today marks a critical milestone for NXP. By building this incredible facility and tapping key talent in Arizona, we are able to bring focus to GaN technology as part of driving the next generation of 5G base station infrastructure."

#### **Gallium Nitride: The new gold standard for 5G**

With 5G, the density of RF solutions required per antenna has exponentially increased – yet maintaining the same box size and reducing power consumption is mandatory. GaN power transistors have emerged as the new gold standard to address these dueling requirements, delivering significant improvements in both power density and efficiency.

Nearly 20 years of GaN development expertise and extensive wireless communication industry knowledge uniquely position NXP to lead this [next wave of cellular expansion for 5G](#). The company has deeply optimized its GaN technology to improve the electron trapping in the semiconductor to deliver high efficiency and gain with [best-in-class linearity](#), all of which is focused on serving NXP customers with the highest quality GaN device production.

Joakim Sorelius, Head of Development Unit Networks at Ericsson, a longstanding NXP customer, commented: "We strive to deliver industry leading products that provide maximum value to our customers, where power amplifiers play an important part of the radio technology. Similar to Ericsson's recent US investments, we are pleased to see NXP's investments in the U.S. semiconductor process development with the continuous focus on improving RF system performance for future high demanding radio networks."

#### **State-of-the-art fab draws on NXP's early GaN innovation and total quality mindset**

NXP's strategic move to [build an internal GaN fab](#) was driven by its ability to achieve higher performance benefits through leveraging its core competency in cellular infrastructure design, proven track record for high-volume manufacturing and consistency and leadership in total quality processes.

"I am excited by the opening of our new facility in Chandler as it underscores NXP's decades-long commitment to GaN and the communications infrastructure market," said Paul Hart, Executive Vice President and GM of the Radio Power Group at NXP. "I would like to thank our customers for their collaboration throughout the years and the entire NXP team that has been instrumental in creating the world's most advanced RF GaN fab, which is designed and ready to scale to 6G and beyond."

The fab is set to ramp quickly with NXP leveraging its Chandler-based team and their long-standing expertise in compound semiconductor manufacturing. Arizona Governor Doug Ducey added: "With this new state-of-the-art manufacturing facility in Chandler, Arizona is set to expand its reputation as a high-tech manufacturing hub and a pioneer in 5G innovation. We're grateful to NXP for bringing more jobs and investment to our state."

The internal factory will serve as an innovation hub that facilitates collaboration between the fab and NXP's onsite R&D team. [NXP engineers](#) can now more rapidly develop, validate and protect inventions for current and future generations of GaN devices, resulting in shorter cycle times for NXP GaN innovations.

#### **Availability**

NXP's new Chandler-based GaN fab is qualified now, with initial products ramping in the market and expected to reach full capacity by the end of 2020.

#### **Watch the NXP RF GaN fab opening**

[Click here](#) to watch keynote addresses from NXP executives and government officials, tour the fab, view GaN technical sessions, and watch a panel discussion on 5G with NXP's RF leaders and industry analysts.

## About NXP Semiconductors

NXP Semiconductors N.V. enables secure connections for a smarter world, advancing solutions that make lives easier, better, and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the automotive, industrial & IoT, mobile, and communication infrastructure markets. Built on more than 60 years of combined experience and expertise, the company has approximately 29,000 employees in more than 30 countries and posted revenue of \$8.88 billion in 2019. Find out more at [www.nxp.com](http://www.nxp.com).

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Source: NXP Semiconductors N.V.