

## Plessey expands production capacity with AIX G5+C cluster from AIXTRON

AIXTRON Planetary technology enables best-in-class GaN-on-Si manufacturing

**Herzogenrath/Germany, 02 March, 2016** – AIXTRON SE (FSE: AIXA; NASDAQ: AIXG), a worldwide leading provider of deposition equipment to the semiconductor industry, today announced that Plessey Semiconductors Ltd. has ordered an AIX G5+ C cluster system for the production capacity expansion of gallium nitride LEDs manufactured on silicon wafers (GaN-on-Si). The tool is scheduled for delivery in the third quarter 2016.

The AIX G5+ C cluster for Plessey consists of two multi-wafer AIX G5+ reactors which are supplemented by AIXTRON's next generation cassette-to cassette handler for large-scale, fully automated epitaxy production. Plessey purchased the AIXTRON planetary system mainly for the expansion of their 150 mm GaN-on-Si wafer production but also works towards 200 mm production qualification mid-term as AIXTRON's G5+ system enables the processing of eight 150 mm wafers or five 200 mm wafers at the same time.

Mike Snaith, Operations Director at Plessey, said: "We are now moving from proof of capability for our GaN-on-Si LED products into a capacity expansion phase. In the meantime, we have built significant demand for a range of our LED products. We have decided to purchase AIXTRON's latest planetary system as the AIX G5+ C combines outstanding on-wafer uniformity and run-to-run performance at lowest cost of ownership – aspects that are crucial for efficient high-volume GaN-on-Si production."

Dr. Frank Schulte, Vice President AIXTRON Europe, comments: "We have a longstanding and trustful relationship with Plessey and therefore, we are delighted by the renewed order. Our AIX G5+ C planetary system resolves the common challenges of high-yield, high-quality and high-throughput production of GaN-based materials on large-area silicon wafers through its fully automated cassette-to-cassette loader and a thermally activated gas etch of the MOCVD chamber."

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**For further information please contact**

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AIXTRON SE is a leading provider of deposition equipment to the semiconductor industry. The Company was founded in 1983 and is headquartered in Herzogenrath (near Aachen), Germany, with subsidiaries and sales offices in Asia, United States and in Europe. AIXTRON's technology solutions are used by a diverse range of customers worldwide to build advanced components for electronic and opto-electronic applications based on compound, silicon, or organic semiconductor materials. Such components are used in a broad range of innovative applications, technologies and industries. These include LED applications, display technologies, data storage, data transmission, energy management and conversion, communication, signaling and lighting as well as a range of other leading-edge technologies.

Our registered trademarks: AIXACT<sup>®</sup>, AIXTRON<sup>®</sup>, Atomic Level SolutionS<sup>®</sup>, Close Coupled Showerhead<sup>®</sup>, CRIUS<sup>®</sup>, Gas Foil Rotation<sup>®</sup>, OVPD<sup>®</sup>, Planetary Reactor<sup>®</sup>, PVPD<sup>®</sup>, TriJet<sup>®</sup>, Optacap<sup>™</sup>

For further information on AIXTRON (FSE: AIXA, ISIN DE000A0WMPJ6; NASDAQ: AIXG, ISIN US0096061041) please visit our website at: [www.aixtron.com](http://www.aixtron.com).

## About Plessey

Plessey is a leading expert in the manufacture of semiconductor products used in lightning, sensing, measurement and control applications, and is now at the forefront of Solid State Lighting revolution. Its MaGIC<sup>™</sup> (Manufactured on GaN-on-Si I/C) LED technology has won numerous awards for its innovation and ability to cut the cost of LED lighting by using standard silicon manufacturing techniques. By using its understanding of electronics and expertise in micro-electronic product design and manufacture, Plessey is radically enhancing the human experience with micro-electronic solutions such that people achieve more than they thought possible.

For further information and datasheets, please visit [www.plesseysemiconductors.com](http://www.plesseysemiconductors.com) or email [enquiries@plesseysemi.com](mailto:enquiries@plesseysemi.com).

## Forward-Looking Statements

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