

Forward-Looking Statements



This document may contain forward-looking statements regarding the business, results of operations, financial condition and earnings outlook of AIXTRON. These statements may be identified by words such as "may", "will", "expect", "anticipate", "contemplate", "intend", "plan", "believe", "continue" and "estimate" and variations of such words or similar expressions. These forward-looking statements are based on the current assessments, expectations and assumptions of the executive board of AIXTRON, of which many are beyond control of AIXTRON, based on information available at the date hereof and subject to risks and uncertainties. You should not place undue reliance on these forward-looking statements. Should these risks or uncertainties materialize or should underlying expectations not occur or assumptions prove incorrect, actual results, performance or achievements of AIXTRON may materially vary from those described explicitly or implicitly in the relevant forward-looking statement. This could result from a variety of factors, such as those discussed by AIXTRON in public reports and statements, including but not limited those reported in the chapter "Risk Report". AIXTRON undertakes no obligation to revise or update any forward-looking statements as a result of new information, future events or otherwise, unless expressly required to do so by law.

Due to rounding, numbers presented throughout this report may not add up precisely to the totals indicated and percentages may not precisely reflect the absolute figures for the same reason.

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AIXTRON - Who We Are





- Headquarters based near Aachen, Germany
- Worldwide presence in 9 countries with > 1,100
 employees (H1/2024)
- R&D and production facilities in Germany, Italy and UK

- Company founded in 1983, 40 years of experience
- Technology leader in deposition systems
- Over 3,500 deposition systems sold worldwide

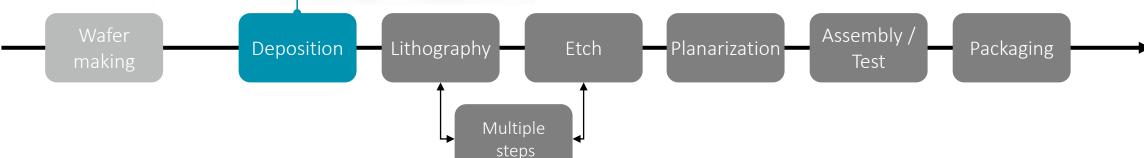
What We Do – deposition equipment for compound semiconductors





Focused Business Model

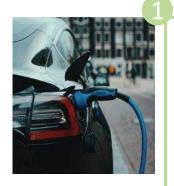
- AIXTRON is the leading supplier of <u>deposition</u> <u>equipment</u> to the <u>compound semiconductor</u> <u>industry</u>
- (MO)CVD: The tools run a (Metal-Organic)
 Chemical Vapor Deposition process for deposition of compound semiconductors
- Competitive strength comes from strong focus and clear technology / market leadership in fast growing segments of the market



We address a comprehensive set of growth applications with our G10 family of products



Power Electronics



SiC Power

- EV main inverters and EV OBCs
- EV charging infrastructure
- Data centers: AC/DC
- Wind & PV
- Traction & large drives

SiC GaN

AsP

AsP

GaN Power & RF

- Fast charging / mobile devices
- Data centers: AC/DC & DC/DC
- Motor drives, e.g., white goods
- Al power delivery
- EV OBCs
- Base stations



Optoelectronics / LEDs



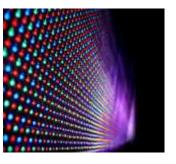


Lasers

- Optical data communication
- 3D sensing
- LiDAR
- Industrial power lasers

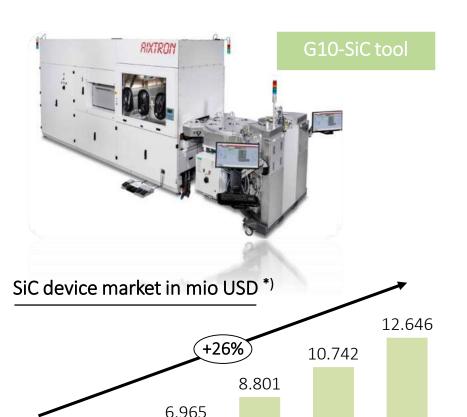


- Industrial displays (in/outdoor)
- TVs
- Smart watches / AR glasses
- Automotive
- Horticulture



SiC power – growth faster than market due to market share gains





5.566

2025

2026

2027

2028

2029

4.019

2024

Market update

- Short-term (2025/2026): "down market" due to capacity overbuild in 2022-2024 and reduced EV adoption
- Mid-term (2026-2029): ~doubling of annual tool demand by 2029 expected due to
 - Continued EV ramps
 - Market share gains of SiC vs. silicon due to rapidly declining prices of SiC wafers

AIXTRON update

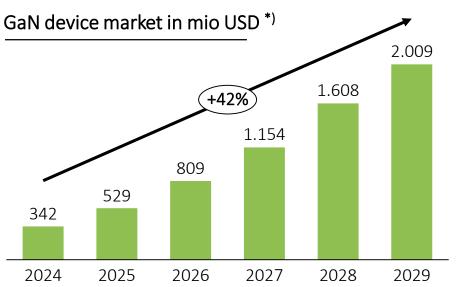
- Short-term (2025/2026): "flat" due to
 - Market share gains (additional customers)
 - Some AIXTRON customers grow despite overall market slowdown – esp. by serving the China EV market
- Mid-term (2026-2029):
 - Growth in line with or faster than the market

*) Yole Q3/2024; device market in USDm

GaN power – acceleration of growth due to additional demand from AI







Market update

- Short-term (2025): "flat/down" due to CAPEX reduction of power electronics players
- Mid-term (2026-2029): accelerated (~3x) growth of annual tool demand due to
 - GaN penetrating more and more applications
 - GaN replacing silicon (energy efficiency)
 - Al adding ~30-60% on top of past demand forecasts

AIXTRON update

- Short-term (2025/2026):
 - "flat/down" revenue in line with market
 - Preparation for launch of 300mm technology
- Mid-term (2026-2029):
 - Accelerated growth in line with end-market demand
 - Co-existence of 200mm and 300mm wafer sizes

GaN power – selected case examples





HV motor drives, home appliances



- Up to 40% energy consumption reduction
- Ramp from 2024 onwards
- High unit volume, large dies --> high wafer consumption

Battery tools and consumer devices





- Longer battery life
- Smaller size and reduced weight b/c less cooling

Al "On Board" power delivery



- Replacement of silicon power chips around the GPUs
- Up to 50% lower power loss in a compact form factor
- ~30-60% upside to today's
 GaN market models



Micro LED / LED – work continues until ramp in 2026+







Market update

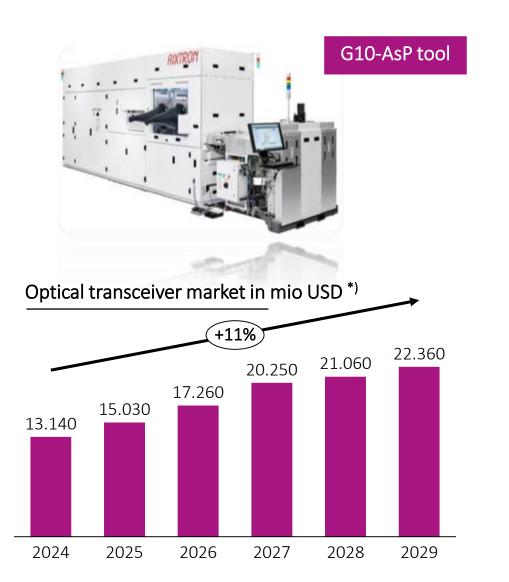
- Short-term:
 - Slowdown in EU/US after exit of Apple/Osram
 - Continued work in TW/CN/KR on LED brightness and cost per display
- <u>Mid-term</u>:
 - Fab construction for serving volume market targeted for 2026/2027

AIXTRON update

- Short-term (2025):
 - R&D work with multiple customers
- Mid-term (2026/2027):
 - Growth in line with the market

Lasers – new capacity build to kick in after digestion phase





Market update

- Digestion of overcapacity until 2025
- New capacity installations starting in 2026 driven by
 - Increasing data traffic
 - IoT and AI as drivers for data
- Doubling of annual tool demand (2028 vs. 2024) expected

AIXTRON update

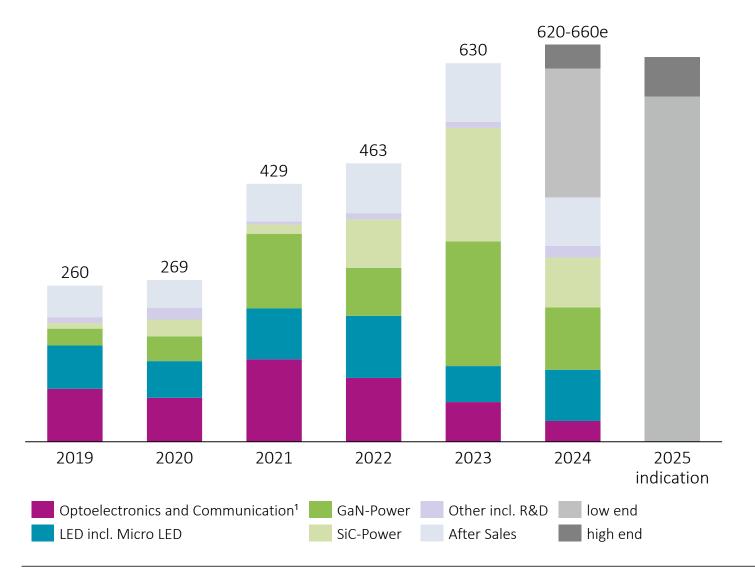
- Growth in line with market
- Maintain market share through qualification of new tool generation G10-AsP at customers

*) Yole 2024; device market in USDm

Track record proves execution capability – and gives positive perspective mid/long term



AIXTRON revenues by applications in EUR million



Past 3-5 years – key achievements

- Portfolio renewal with G10 family
- Secured high market share in existing businesses through wafer size changes ²
- Successful entry in SiC market

Proven execution capability

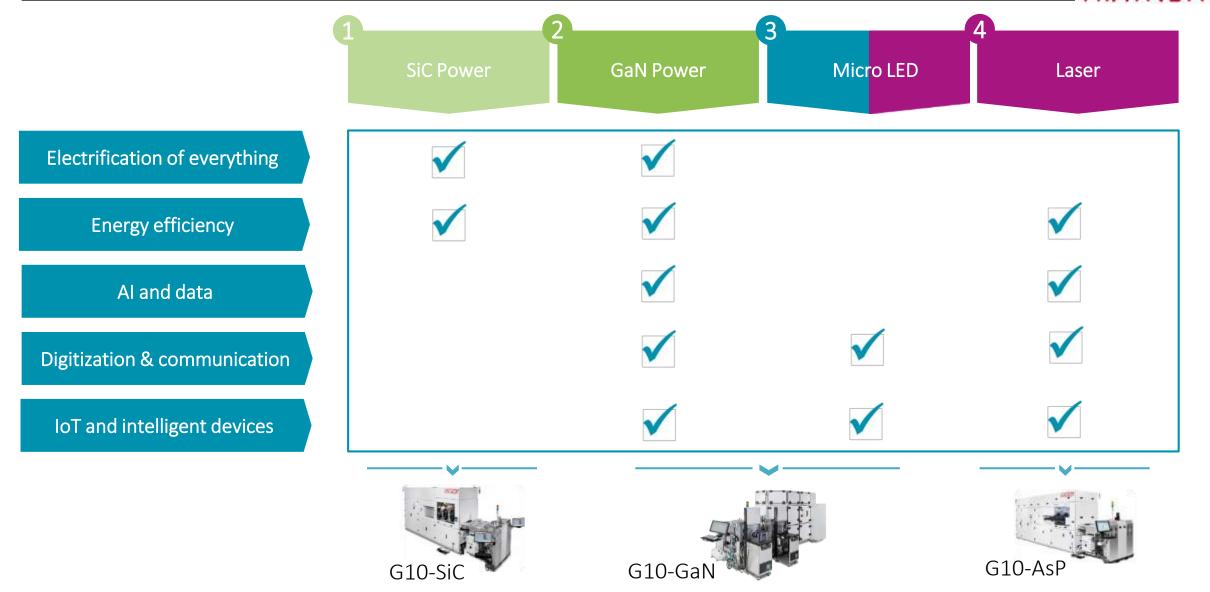
Next 3+ years – outlook

- 2025: "Flat/slight down" expected
- By 2028/2029 "doubling of end market demand" expected ³

Attractive mid/long-term perspective

Our growth is driven by megatrends that will continue through the cycle







Our Financial Reporting Dates:

27 Feb. 2025
30 Apr. 2025
31 Jul. 2025
30 Oct. 2025

FY/24 Results, Conference Call Q1/25 Results, Conference Call Q2/25 Results, Conference Call Q3/25 Results, Conference Call

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Conferences & Roadshows:

9/10 Jan	
14/15 Jan	
16 Jan	
18/19 Jan	
6 Feb	

ODDO BHF Forum 2025, Lyon ODDO BHF GIS 2025, New York City Roadshow Montreal, Canada Kepler GCC 2025, Frankfurt Montega HIT, Hamburg

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AIXTRON

Our technology. Your future.

AIXTRON SE

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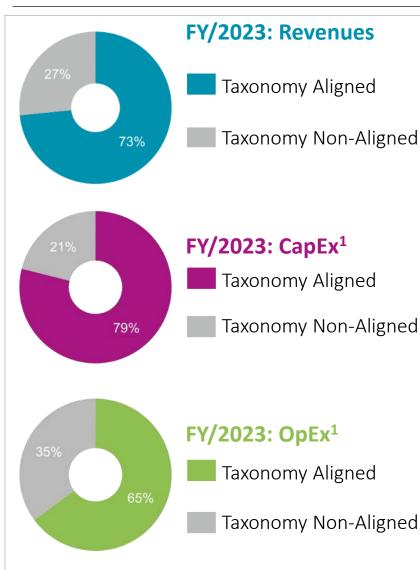
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EU Taxonomy Alignment & ESG-Ratings – well above industry standard





In line with EU Taxonomy Regulation

EU Taxonomy Aligned Technologies

- Wide Band Gap (WBG) Power Semiconductors based on:
 - Gallium Nitride (GaN) and
 - Silicon Carbide (SiC)

Key technologies for energy-efficient Power Electronics

Micro LEDs:

For the next generation of displays

- Laser Diodes for Data Communication:
 Key technology for the digitalization of our world
- Photovoltaics based on Compound Semiconductors:

For high-tech applications (e.g., space applications)

Quantum Technologies:

For neuromorphic computing and quantum sensing

ESG-Ratings

CDP (Europe):

- 2023: D (B)
- 2022: C (B)

MSCI:

- 2023: AA
- 2022: AA

Sustainalytics:

- 2023: 19.6 Low risk
- 2022: 19.2 Low risk

ISS Oekom:

- 2023: C-
- 2022: C-