



# Infineon at a glance 2018

[www.infineon.com](http://www.infineon.com)



We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future.

Part of your life. Part of tomorrow.



We are the link between the real and the digital world.



# We are shaping the future

For an easier, safer and greener world

The digital revolution is transforming our world. A rapid stream of innovative products and services is touching almost every facet of our everyday lives. We are playing a key role in shaping a better future – with microelectronics that link the digital and the real world. Our semiconductors enable smart mobility, efficient energy management and the secure capture and transfer of data.

## **We make life easier**

Smart functions like speech recognition, gesture control and 3D applications (augmented/virtual reality) improve the usability and convenience of everyday items such as speakers, wearables and smartphones. Regardless of whether they are used in silicon microphones, radar or 3D sensors, semiconductors from Infineon make life easier. Thanks to our power semiconductors, mobile devices have increasingly compact and lighter adapters, shorter charging cycles and longer battery lives.

## **We make life safer**

As web-based services proliferate, so too does the need to protect digital communication, connected devices and electronic identification documents like

ePassports against misuse. Our security solutions use innovative encryption technologies to safeguard identities and data. In the Internet of Things, they ensure that devices and services can be reliably authenticated. We also help make our roads safer – through solutions that correct driver errors and prevent accidents. Examples include pedestrian detection systems, adaptive cruise control or blind spot alerts. In addition, our solutions make premium-class automotive safety systems affordable in the mid-range and compact car classes.

## **We make life greener**

Our world needs more and more energy. Which is why we have to produce, transmit and use energy more efficiently. Semiconductors from Infineon are used to generate electricity effectively from solar and wind sources. They also enable energy to be transmitted with almost no losses. Our technologies help make cars, trains, industrial plants, consumer electronics and household appliances as energy efficient as possible.





# Infineon's business segments and target applications

## **Automotive**

In the Automotive (ATV) segment, we develop products and solutions for conventional drivetrains while also actively shaping the keystone trends that define the industry. Demand for our power semiconductors is on an upward path, fueled by the rising number of electronic applications in cars – a trend further accentuated by the growing popularity of electromobility. We are the undisputed market leader in silicon-based IGBTs and IGBT modules. Our expertise in silicon carbide is also increasingly relevant for automotive power semiconductors. We are paving the way for self-driving cars with our radar sensors and microcontrollers. Positioned as number two in the radar sensor market, we are already noting strong momentum from the proliferation of driver assistance systems. In the long term, radar systems will be fused with other sensor technologies. We are laying the groundwork for this by developing products such as LIDAR solutions. With our AURIX™ family, we are also benefiting from the trend towards increased automation. Our products here control electronic systems such as steering and braking, also acting as host controllers to provide functional safety and data security for central computing platforms.

## **Industrial Power Control**

The Industrial Power Control (IPC) segment specializes in the efficient conversion of electric energy along the entire supply chain – from generation and transmission right through to consumption. Applications here include wind turbines, high-voltage DC transmission systems, energy storage systems, charging infrastructures for electric vehicles, and household appliances. Infineon is the world leader in IGBT-based discrete power semiconductors and power semiconductor modules. To further strengthen this core IPC business, we are aiming for technology leadership in silicon carbide. Complementary product areas are also becoming increasingly important for us, in particular Intelligent Power Modules (IPMs) integrating controllers, drivers and switches to enable digital control capabilities.

## Power Management & Multimarket

Our Power Management & Multimarket (PMM) segment focuses on power semiconductors for energy management as well as components for wireless infrastructures and mobile devices. PMM also specializes in ultra-reliable components for applications in industries such as aerospace. Infineon is the clear leader in the global MOSFET market. Our CoolMOS™ and OptiMOS™ families deliver excellent levels of energy efficiency. We also offer leading-edge solutions based on gallium nitride. In parallel to this product group, we are continuing to expand our portfolio of complementary drivers and controllers. Battery-operated devices are one of the fastest-growing applications for power semiconductors. In the high-frequency and sensor space, we have established a strong technology footprint with MEMS microphones (silicon in particular), time-of-flight sensors for 3D cameras and radar applications. We have already established very successful positions in the respective markets. At the same time, we can apply our expertise in these areas to more and more use cases that are set to gain momentum over the coming years. Key examples here include human-machine interaction (HMI) and facial recognition.

## Digital Security Solutions

The Digital Security Solutions (DSS) segment has over thirty years' experience delivering some of the world's most challenging and large-scale digital security projects. Our success here is built on our wealth of expertise in conventional smart card applications. We are transferring our core skills in payment cards and government documents to the fast-growing field of embedded security applications. As digitalization shapes more and more areas of everyday life, security is becoming a key success factor for applications across industries as diverse as computing, automotive, Industry 4.0 and smart homes. Parallel to its role as an independent business segment, DSS acts as a competence center for our other three segments, supporting their efforts to hardwire security functionality into their respective system solutions.

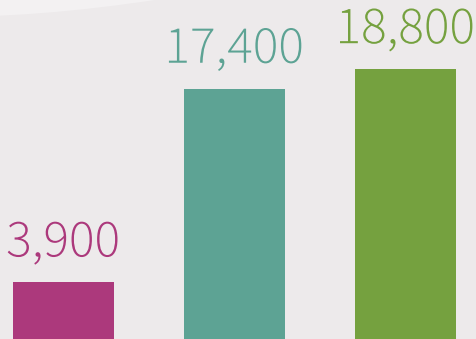
# Facts & figures

40,100

employees worldwide  
as of 30 September 2018

7,599

revenue in the 2018 fiscal year  
in EUR million



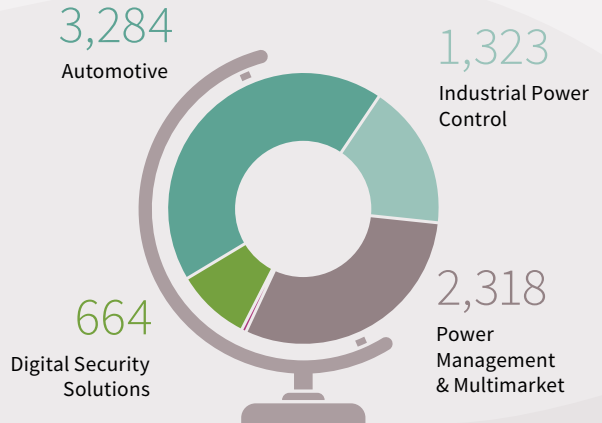
Americas



Europe,  
Africa



Asia-Pacific  
(incl. Japan)



10

Other operating segments,  
corporate and eliminations



# Market shares

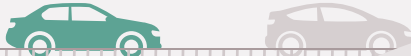
10.8%

market share<sup>1</sup>

## Automotive electronics

Number 2 in automotive semiconductors

Source: Strategy Analytics, April 2018



18.6%

market share<sup>1</sup>

## Industrial electronics

Number 1 in the total market for discrete power semiconductors and modules 15 years in a row

Source: IHS Markit, Technology Group<sup>2</sup>



26.3%

market share<sup>1</sup>

## Power supply

Number 1 in MOSFET power semiconductors

Source: IHS Markit, Technology Group<sup>2</sup>



24.2%

market share<sup>1</sup>

## Security

Number 1 in smart card and security ICs

Source: ABI Research, October 2018



<sup>1</sup> 2017 calendar year

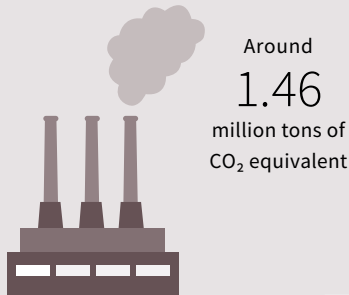
<sup>2</sup> Information based on the "Power Semiconductor Annual Market Share Report" dated September 2018 issued by the Technology Group of IHS Markit.

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# Corporate social responsibility

## CO<sub>2</sub> footprint

Around  
56.1  
million tons of  
CO<sub>2</sub> equivalent



CO<sub>2</sub> burden <sup>5</sup>

Ratio around 1:38

CO<sub>2</sub> savings <sup>6</sup>

Net ecological benefit: CO<sub>2</sub> emissions reduction in excess of 54 million tons

At Infineon, we align our corporate social responsibility (CSR) strategy with the principles of the UN Global Compact, which we have been a member of since 2004. Our CSR strategy covers the following areas of activity:

**Business ethics:** Integrity shapes the way we do business and interact with customers, shareholders, business partners, employees and the general public. This commitment to integrity forms the basis of our Business Conduct Guidelines.

**Environmental sustainability:** Our Infineon Integrated Management Program for Environment, Energy, Safety and Health (IMPRES) is certified according to ISO 14001. At our largest European sites and our corporate headquarters (Campeon), our energy management system is also certified according to ISO 50001.

**Corporate citizenship:** At Infineon, our corporate citizenship activities are centered on social engagement projects that benefit the communities in which we operate.

**CSR in the supply chain:** Our suppliers have to comply with our Business Conduct Guidelines and our Principles of Purchasing.

**Occupational health and safety (OHS):** Our OHS Management System is certified in accordance with OHSAS 18001.

**Human resources management:** Our human resources work focuses on developing our existing workforce and recruiting new staff.

Infineon is listed in major sustainability indices. For further information on our CSR strategy, visit: [www.infineon.com/sustainability](http://www.infineon.com/sustainability)

<sup>5</sup> This figure considers manufacturing, transportation, company cars, flights, raw materials and supplies, chemicals, water/wastewater, direct emissions, energy consumption, waste, etc. and is based on data collected internally and conversion factors that are publicly available. All data relates to the 2018 fiscal year.

<sup>6</sup> The figure relates to the 2017 calendar year and is calculated for the following fields of application: automotive, LEDs, induction cookers, PC power supplies, renewable energy (wind, photovoltaic), cellphone chargers and drives. CO<sub>2</sub> savings are calculated on the basis of the potential savings resulting from technologies in which semiconductors are used. The CO<sub>2</sub> savings are allocated on the basis of Infineon market share, semiconductor content and lifetime of the technologies concerned, based on internal and external experts' estimations. Despite the fact that precise CO<sub>2</sub> footprint calculations are subject to uncertainty due to the complex issues involved, the results are nevertheless clear.

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