


Infinite Technologies

Infinite Technologies AG



Type	Aktiengesellschaft
Traded as	FWB: IFX
ISIN	DE0006231004 <small>#</small>
Industry	Semiconductors
Founded	April 1, 1999; 20 years ago
Headquarters	Neubiberg , Germany
Key people	Reinhard Ploss (CEO and Chairman of the executive board) Wolfgang Eder (Chairman of the supervisory board) ^[1] , Sabine Herlitschka (CEO of Infineon Technologies Austria)
Products	Microcontrollers , communication ICs , Power electronics , ESD Protection Diodes
Revenue	▲ €8.029 billion (2019) ^[2]
Operating income	▼ €1.161 billion (2019) ^[2]
Net income	▼ €870 million (2019) ^[2]

Total assets  €13.412 billion (2019)^[2]

Total equity  €8.633 billion (2019)^[2]

Number of employees 41,418 (30 September 2019)^[2]

Divisions Automotive, Industrial Power Control,
Power Management & Multimarket,
Digital Security Solutions^[3]

Website www.infineon.com

Infineon Technologies AG is a [German](#) semiconductor manufacturer founded in 1999, when the [semiconductor](#) operations of the parent company [Siemens AG](#) were spun off. Infineon has about 41,000 employees. In fiscal year 2019, the company achieved sales of €8.0 billion.^[2]



Contents

- [1 Markets](#)
 - [1.1 Automotive \(ATV\)](#)
 - [1.2 Industrial Power Control \(IPC\)](#)
 - [1.3 Power Management & Multimarket \(PMM\)](#)
 - [1.4 Digital Security Solutions \(DSS\)](#)^[3]
- [2 Acquisitions and divestitures](#)
 - [2.1 ADMTek acquisition](#)
 - [2.2 Qimonda carve out](#)
 - [2.3 Lantiq carve out](#)
 - [2.4 Mobile Communications sale to Intel](#)
 - [2.5 International Rectifier acquisition](#)
 - [2.6 Wolfspeed acquisition attempt](#)
 - [2.7 Innoluce BV acquisition](#)
 - [2.8 RF Power sale to Cree](#)
 - [2.9 Cypress Semiconductor acquisition](#)
- [3 Financial data](#)
- [4 Management](#)
- [5 Litigation](#)
- [6 Security flaw](#)
- [7 Notes](#)
- [8 External links](#)

Markets

Infineon markets semiconductors and systems for [automotive](#), industrial, and multimarket sectors, as well as chip card and security products. Infineon has subsidiaries in the USA in [Milpitas](#), California, and in the Asia-Pacific region, in [Singapore](#) and Tokyo, Japan.

Infineon has a number of facilities in Europe, one in [Dresden](#), Germany, Europe's microelectronic, and emerging technologies center^[citation needed]. Infineon's high power segment is in [Warstein](#), Germany; [Villach](#) and [Graz](#) in Austria; [Cegléd](#) in Hungary; and Italy. It also runs [R&D](#) centers in France, Singapore, [Romania](#), Taiwan, UK and [India](#), as well as fabrication units in [Singapore](#), Malaysia, [Indonesia](#), and China. There's also a Shared Service Center in Maia, Portugal.

Infineon is listed in the [DAX](#) index of the [Frankfurt Stock Exchange](#).

In 2010, a [proxy contest](#) broke out in advance of the impending shareholders' meeting over whether board member [Klaus Wucherer](#) would be allowed to step into the chairman's office upon the retirement of the then-current chairman Max Dietrich Kley.

After several restructurings,^[4] Infineon today comprises four business areas:

Automotive (ATV)

Infineon provides semiconductor products for use in [powertrains](#) (engine and transmission control), comfort electronics (e.g., steering, [shock absorbers](#), [air conditioning](#)) as well as in safety systems ([ABS](#), [airbags](#), [ESP](#)). The product portfolio includes [microcontrollers](#), power [semiconductors](#) and [sensors](#). In fiscal year 2018 (ending September), sales amounted to €3,284 million^[3] for the ATV segment.

Industrial Power Control (IPC)

The industrial division of the company includes power semiconductors and modules which are used for generation, transmission and consumption of electrical energy. Its application areas include control of electric drives for industrial applications and household appliances, modules for renewable energy production, conversion and transmission. This segment achieved sales of €1,323 million in fiscal year 2018^[3].

Power Management & Multimarket (PMM)

The division Power Management & Control sums up the business with semiconductor components for efficient power management or high-frequency applications. Those find application in lighting management systems and LED lighting, power supplies for servers, PCs, notebooks and consumer electronics, custom devices for peripheral devices, game consoles, applications in medical technology, high-frequency components having a protective function for communication and tuner systems and silicon MEMS microphones. In fiscal year 2018 PMM generated €2,318 million^[3].

Digital Security Solutions (DSS) ^[3]

The DSS business provides microcontrollers for mobile phone SIM cards, payment cards, security chips and chip-based solutions for passports, identity cards and other official documents. Infineon delivers a significant number of chips for the new German identity card.^[5] In addition, DSS provides solutions for applications with high security requirements such as pay television and Trusted Computing. DSS achieved €664 million in fiscal year 2018 ^[3]. "*Infineon is the number 1 in embedded security*" (IHS, 2016 – IHS Embedded Digital Security Report).

Acquisitions and divestitures

ADMTek acquisition

Infineon bought ADMtek in 2004.^{[6][7]}

Qimonda carve out

The former Memory Products division was carved out in 2006 as Infineon's subsidiary [Qimonda AG](#), of which Infineon last held a little over three quarters. At its height Qimonda employed about 13,500 people; it was listed on the [New York Stock Exchange](#) until it filed for bankruptcy with the district court in Munich in January 2009 ^[8].

Lantiq carve out

On 7 July 2009, Infineon Technologies AG agreed by contract with the U.S. investor Golden Gate Capital on the sale of its Wireline Communications for €250 million.^[9] The resulting company was named [Lantiq](#) and had around 1,000 employees.^[10] It was acquired by [Intel](#) in 2015.^[11]

Mobile Communications sale to Intel

On 31 January 2011, the sale of the business segment of wireless solutions to [Intel](#) was completed for US\$1.4 billion.^[12] The resulting new company had approximately 3,500 employees and operated as [Intel Mobile Communications](#) (IMC).^{[13][14]} The smartphone modem business of IMC was announced to be acquired by [Apple Inc.](#) in 2019.^[15]

International Rectifier acquisition

Infineon Technologies agreed on 20 August 2014 to buy the [International Rectifier Corporation](#) (IR) for about \$3 billion,^[16] one third by cash and two thirds by credit line.^[17] The acquisition of International Rectifier was officially closed on 13 January 2015.^[18]

Wolfspeed acquisition attempt

In July 2016, Infineon announced it agreed to buy the North Carolina-based company Wolfspeed from [Cree Inc.](#) for \$850 million in cash.^[19] The deal was however stopped due to US security concerns.^[20]

Innoluce BV acquisition

In October 2016, Infineon acquired the company Innoluce which has expertise in MEMS and [LiDAR systems](#) for use in [autonomous cars](#). The MEMS lidar system can scan up to 5,000 data points a second with a range of 250 meters with an expected unit cost of \$250 in [mass production](#).^{[21][22]}

RF Power sale to Cree

In March 2018, Infineon Technologies AG sold its RF Power Business Unit to [Cree Inc.](#) for €345 Million.^[23]

Cypress Semiconductor acquisition

In June 2019, Infineon announced it would acquire [Cypress Semiconductors](#) for \$9.4 billion.^{[24][25]}

Financial data

Financial data in € billions^[26]

Year	2013	2014	2015	2016	2017	2018	2019
Revenue	3.843	4.320	5.795	6.473	7.063	7.599	8.029
Net Income	0.272	0.535	0.632	0.743	0.790	1.075	0.870
Assets	5.905	6.438	8.741	9.087	9.945	10.879	13.412
Employees	26,725	29,807	35,424	36,299	37,479	40,100	41,418

Management

The board of directors consists of Reinhard Ploss, CEO; Sven Schneider, CFO; Helmut Gassel, Sales and Marketing; Jochen Hanebeck, Operations^[27]

Litigation

In 2004–2005, an investigation was carried out into a [DRAM price fixing](#) conspiracy during 1999–2002 that damaged competition and raised PC prices. As a result, [Samsung](#) paid a \$300 million fine, [Hynix](#) paid \$185 million, [Infineon](#): \$160 million. [Micron Technology](#) cooperated with prosecutors and no fine is expected.^[28]

Security flaw

Main article: [ROCA vulnerability](#)

In October 2017, it was reported that a flaw, dubbed ROCA, in a code library developed by Infineon, which had been in widespread use in security products such as [smartcards](#) and [TPMs](#), enabled private keys to be inferred from [public keys](#). As a result, all systems depending upon the privacy of such keys were vulnerable to compromise, such as identity theft or spoofing. Affected systems include 750,000 [Estonian national ID cards](#), 300,000 [Slovak national ID cards](#),^[29] and computers that use Microsoft [BitLocker](#) drive encryption in conjunction with an affected TPM.^[30] Microsoft released an updated version of the firmware for Infineon TPM chips that fixes the flaw via Windows Update immediately after the disclosure.^[31]