Infineon news

15 October 2015



Infineon plus International Rectifier: A Powerful Combination











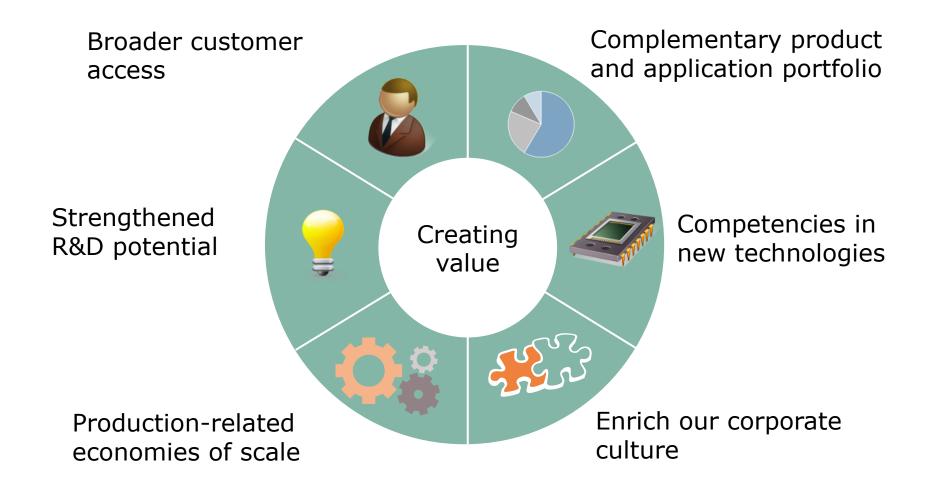
A Powerful Combination

- As of **January 2015**, International Rectifier is an Infineon Technologies company
- Combined **pro-forma revenue of ~€5,150m*** (~\$6,950m) in Infineon 2014 fiscal year
- About **35,000 employees worldwide*** (as of June 2015)
- Strong technology portfolio with more than **22,800 patents** and patent applications (as of September 2014)
- 33 R&D locations; 20 manufacturing locations

^{*}non-audited figures

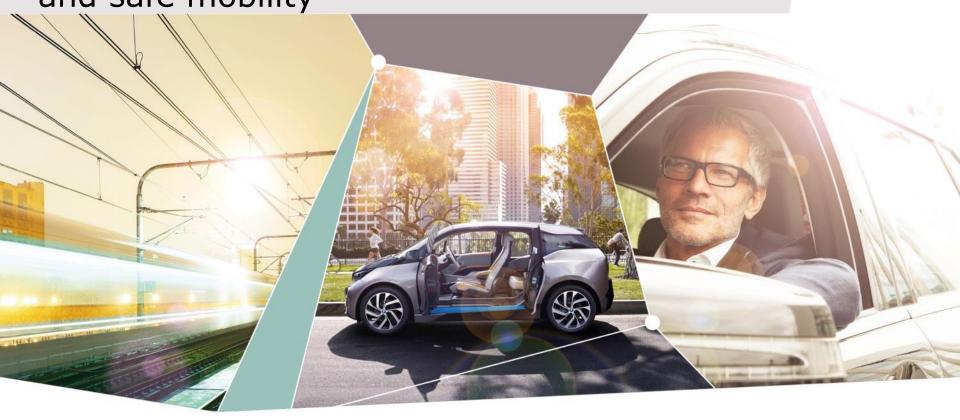
The integration of International Rectifier brings significant benefits





Infineon enables eco-friendly, connected and safe mobility





Applications

Efficient powertrain, electric and hybrid vehicles, charger station for electric vehicles, car safety, chassis and comfort electronics, authentication, mobile security, traction

Infineon enables efficient generation, transmission and conversion of electrical energy





Applications

Energy transmission and conversion, renewable energy generation, home appliances, power supplies, LED lighting systems, mobile devices, power supplies, industrial drives, industrial vehicles

Infineon enables security in the connected world





Applications

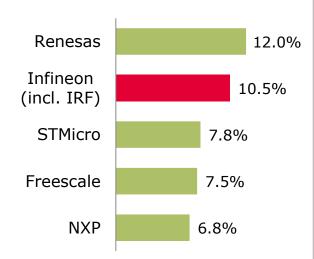
Internet of Things (incl. Industry 4.0), mobile security, embedded security, trusted computing, machine to machine, (mobile) payment, SIM applications, transport ticketing, government identification

Top positions in all major product categories



Automotive semiconductors

total market in 2014: \$27.5bn

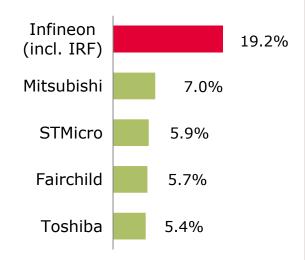


Automotive semiconductors incl. semiconductor sensors.

Source: Strategy Analytics, April 2015

Power semiconductors

total market in 2014: \$16.2bn

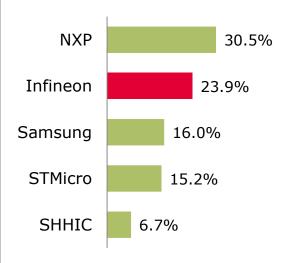


Discrete power semiconductors and power modules.

Source: IHS Inc., September 2015

Smart card Ics

total market in 2014: \$2.63bn



Microcontroller-based smart card ICs.

Source: IHS Inc., July 2015

Leadership in system understanding will foster future growth and profitability



Competitive advantages

System leader in Automotive

#1 and technology leader in Power

Leader in Security Solutions

Average-cycle financial targets

Revenue Growth:

~8%

Segment Result Margin:

~15%

Investment-to-Sales:

~13%

Positive growth outlook for global semiconductor market



Global semiconductor market

in billion \$



Source: WSTS for historical data. Forecast: Ø of WSTS, IHS, Gartner, IC Insights; last update 27 July, 2015

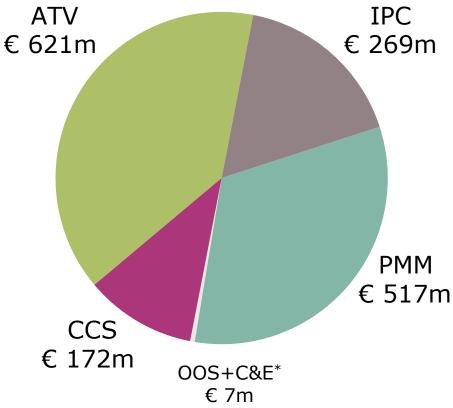


Revenue split by segment

Q3 FY 2015 Revenue: € 1,586m

Automotive





Industrial Power Control



Chip Card & Security



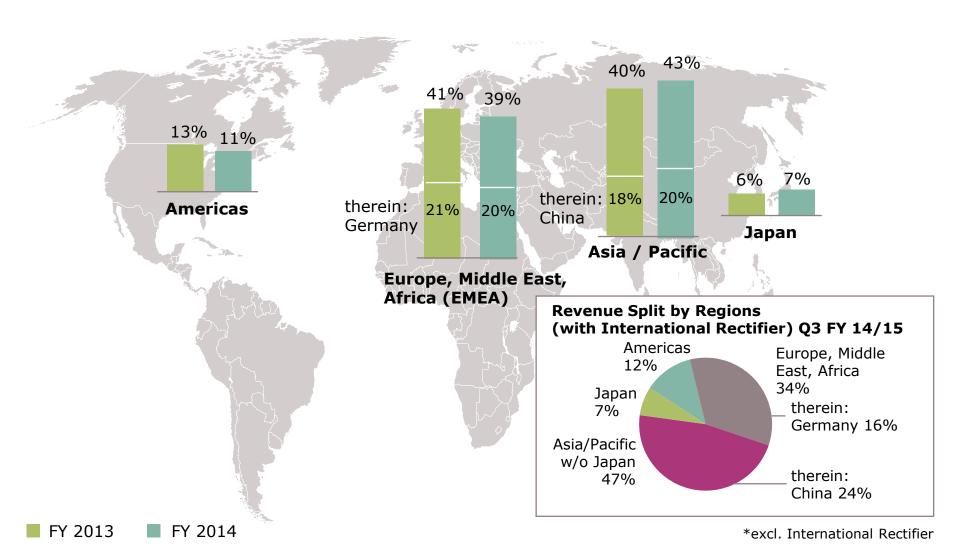
Power
Management &
Multimarket



^{*}Other Operating Segments; Corporate & Eliminations

Revenue split by regions FY 2013* and FY 2014*







Market-oriented business structure

Segments

Applications

Automotive



Chassis and comfort electronics; Electric and hybrid vehicles; Powertrain; Safety; Security

Industrial Power Control



Charger station for electric vehicles; Energy transmission and conversion; Home appliances; Industrial drives; Industrial vehicles; Renewable energy generation; Traction; Uninterruptable power supplies

Power Management & Multimarket



Cellular network infrastructure; Light management and LED lighting systems; Renewable energy generation; ; Mobile devices; Power supplies; DC/DC Power management; High Reliability Applications

Chip Card & Security



Internet of Things, mobile security, embedded security, trusted computing, machine to machine, (mobile) payment, SIM applications, transport ticketing, government identification



Product range



Automotive (ATV)

- Microcontrollers 32-bit for Powertrain, Safety and ADAS
- Software development platform DAVE[™]
- Sensors: pressure, magnetic, radar
- Power: MOSFETS, IGBTs, smart power ICs: voltage regulators, bridges, driver Ics, CAN / LIN / Flex Ray™ transceiver*, DC-DC converters, power system Ics, system-on-chip, embedded power Ics
- Hybrid & Electric Vehicle: IGBT HybridPACK™, HybridPACK™ Double Sided Cooling (DSC) modules, gate driver ICs



Industrial Power Control (IPC)

- IGBT module solutions incl. IGBT stacks
- IGBT modules (highpower, medium-power and low-power)
- Discrete IGBTs
- Bare die business
- Driver ICs



Power Management & Multimarket (PMM)

- Discrete high- and lowvoltage power transistors
- Driver ICs
- Control ICs
- RF power transistors
- Small-signal components
- CMOS RF switches for antenna modules
- Antenna tuning ICs
- MEMS and ASICs for silicon microphones
- Customized chips (ASICs)



Chip Card & Security (CCS)

- Smart card (contactless and contact-based) and embedded security
 ICs
- Extensive packaging and service portfolio
- Innovative solutions from basic security RFID and memories to highend security controllers
- Leading technologies, e.g. SOLID FLASH™, Integrity Guard, VHBR, boosted NFC, Coil on Module



Semiconductor technology portfolio

Technology portfolio fits needs of logic and power applications

Power/Analog incl. Green Robust

Analog Bipolar: DOPL, Ax, BIPEP, B4CD, HED

Analog BiCMOS: B6CA, B6CA-CT, B7CA, SPT170

HV-CMOS-SOI, Levelshift(SOI,JI)

Smart Power: 1200-130nm BIP/CMOS/DMOS

SPTx (Automotive, EDP) (BCD)

Smart: CMOS/DMOS, SMART*x*, MSMART*x*,

SSMARTx, Opto-TRIAC, SPS

DMOS: 12-500V Planar and Trench

MOSFET (OptiMOS™, StrongIRFET™,

HEXFET™)

HV-DMOS: Superjunction MOSFET

(CoolMOS™)

IGBT: Planar & Trench 500-6500V,

rev. cond., fast recov. diodes

SiC/GaN: Diode, JFET / power switches

adopted for automotive, industrial and for high reliability requirements

MEMS/Sensors

Magnetic: BxCAS, C9FLRN_GMR

Opto: OP-DI, OP-TR, OP-C9N, μ-modules

C11TOF

Pressure: BxCSP, TIREPx

Silicon-Microphones: DSOUND

CMOS

Digital CMOS: 800nm – 65nmTechnology Nodes (Platform <180nm incl. RF, AMS)

Analog/Mixed Signal: 500nm – 180nm Technology Nodes (CxNA)

eNVM: EEPROM: IMEMR, C9FL, OTP: C5OP (Automotive)

eFlash/EEPROM: 250nm – 65nm CxFL (Chip Card), CxFLA, CxFLN (Automotive)

HV-CMOS: 130nm, C11HV

RF/Bipolar

RF BiCMOS: 25GHz - 100GHz: B6HFC, B9COPT, B10C

Bipolar IC: 2GHz...200GHz RF-Bipolar: BxHF **SiGe**: B7/B9HFM, B7HF_SLC, B7HF200

HiPAC: Al/Cu Integrated Passives **RF Switches**: C7NP, C11NP

P7Mxx, P7Dxx, P8Mxx

Bipolar/Discretes/MMIC:

RF-Transistors NF-TR; BxHF(D/M) **SiGe**: B7HFD/M, B7HF SD

Power Amplifier: LDMOS, LDxM, LDxIC, LD9AB **RFMOS**: HFM **Diodes**: NF-DI, Tuner: DxT, Schottky: DxS **PIN**: DxP

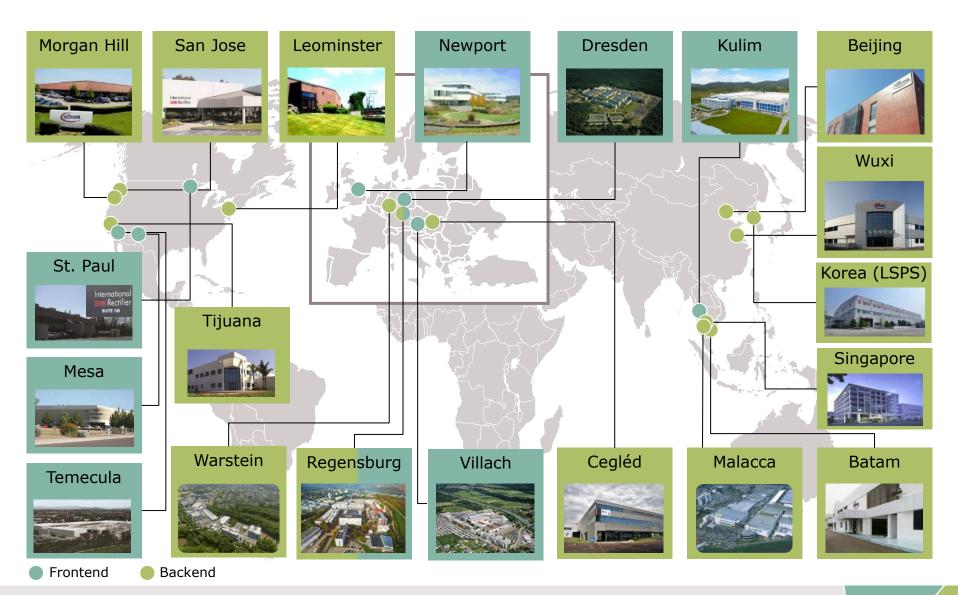


Our global R&D network



Worldwide manufacturing sites frontend and backend







Let's get connected



CUSTOMERS

PRESS





INVESTORS

CAREERS





www.facebook.com/infineon



www.google.com/+infineon



www.twitter.com/infineon





www.infineon.com/linkedin

www.infineon.com/xing

www.youtube.com/infineon