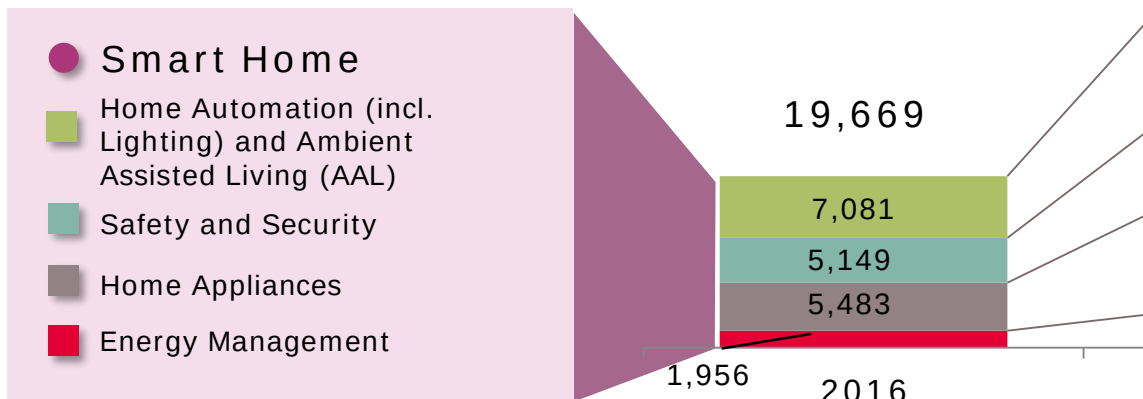


All smart home applications will reach a double digit growth in the next 5 years

Global Smart Home Revenue (Mn US\$ by segment)

CAGR 16 - 21

- > Home Automation is crucial for success in SH, either by partnering with key players or offering own solutions. AAL is the smallest segment, but shows the highest growth rate.
- > Safety and Security shows high revenue and strong growth.
- > Home Appliances penetration has yet to reach critical volume, but many smart appliances are poised for significant adoption growth.
- > Energy Management solutions offer well communicable purchasing reasons and, due to many sensors, can be well integrated.



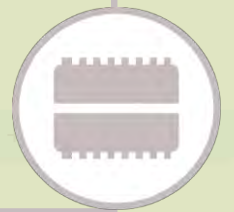
Advanced sensing capabilities

- > Microphone for Voice Recognition/Control
- > Class D Audio amplifier for Smart Speaker.
- > Radar (navigation & detection), Magnetic and Pressure sensors (Home Appliances / Home Security)



Cross-application control

- > XMC™ microcontrollers; for control, communication and sensor management
- > iMOTION™ platform; for targeted motor control and optimized power management



Efficient power management

- > IGBT, driver, DC/DC: FETs, drivers, IPMs, PoLs; AC/DC: SMPS Control ICs for fridges, washing machines or HVAC



Trusted security protection

- > OPTIGA™ Trust family for device authentication
- > OPTIGA™ TPM for secured communication between server and gateway



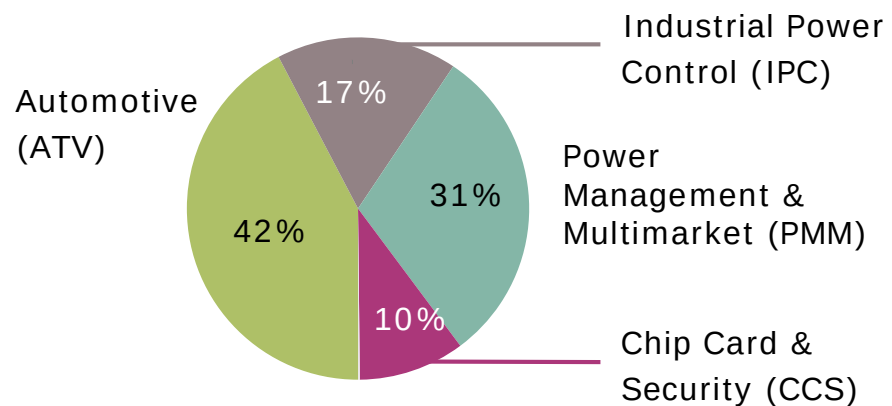
Source: Statista; ABI The future of Smart Appliances in the home – Feb. 2018

Agenda

- 1 Smart Home Markets & Trends : *Why Smart Home ?*
- 2 Gearing with Infineon Solutions : *What & Where can we combine ?*
- 3 Smart Home Security is the key concern: What & How Security ?
- 4 Summary : *We need your Drive Today !*

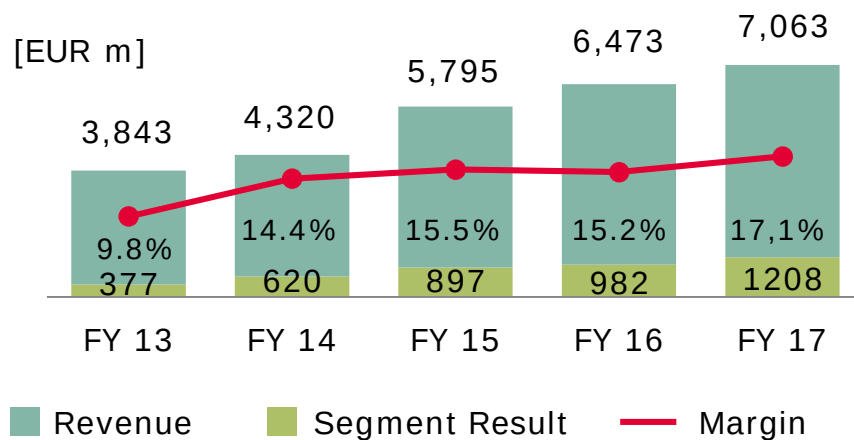
Infineon at a glance

Business Segments



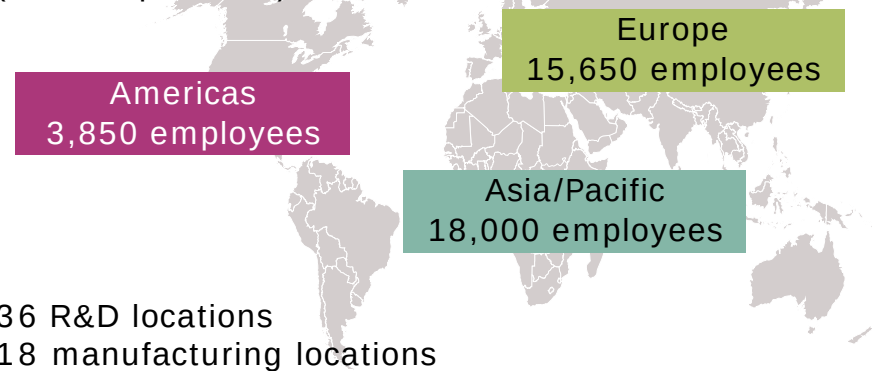
Revenue FY 2017

Financials



Employees

Around 37,500 employees worldwide (as of Sept. 2017)



Market Position

Automotive



2

Strategy Analytics,
April 2017

Power



1

IHS Markit,
Technology Group,
August 2017

Smart card ICs

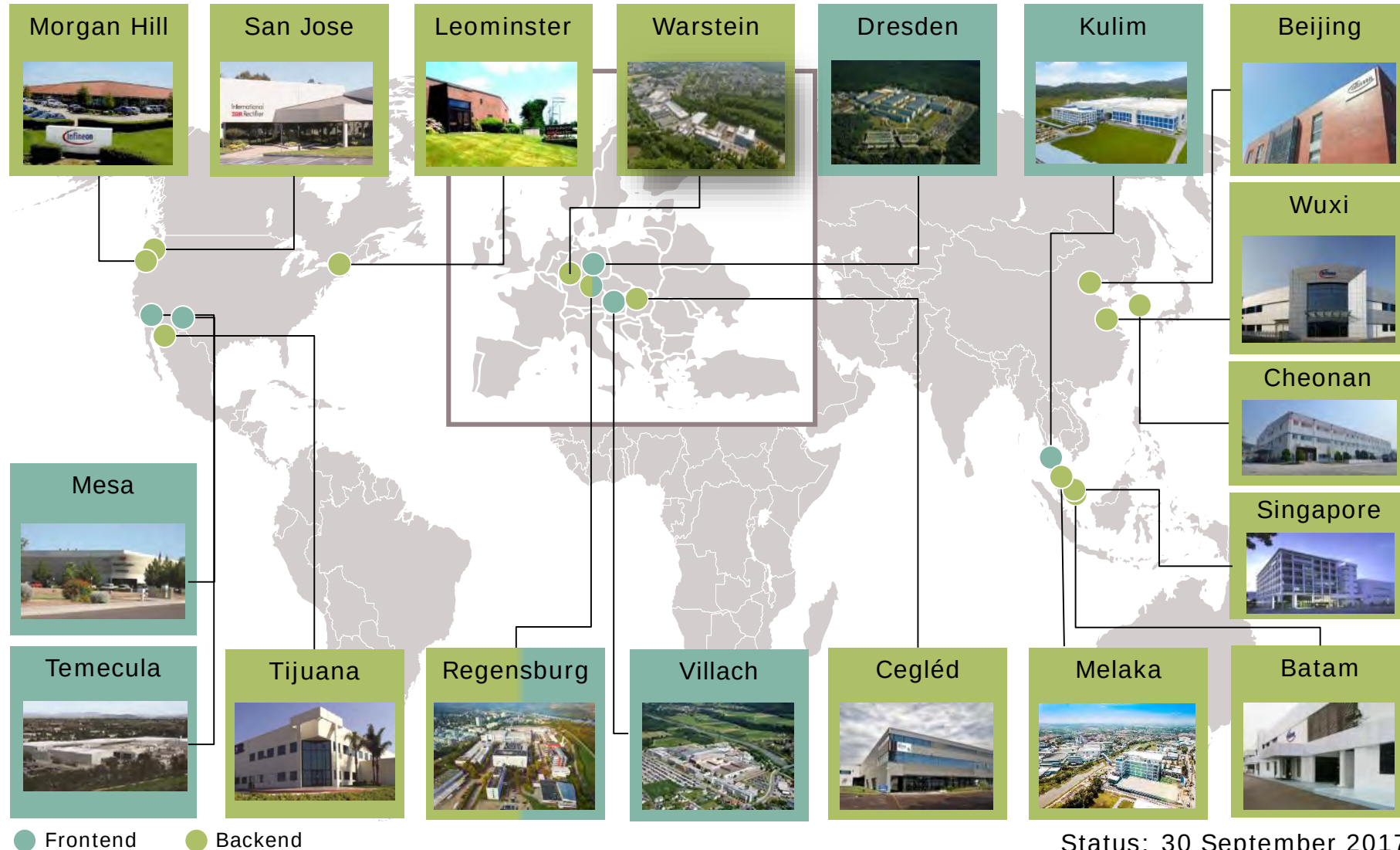


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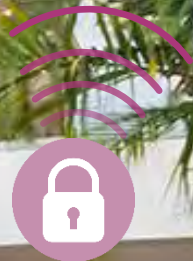
IHS Markit,
Technology Group,
July 2017



Worldwide manufacturing sites frontend and backend



Status: 30 September 2017

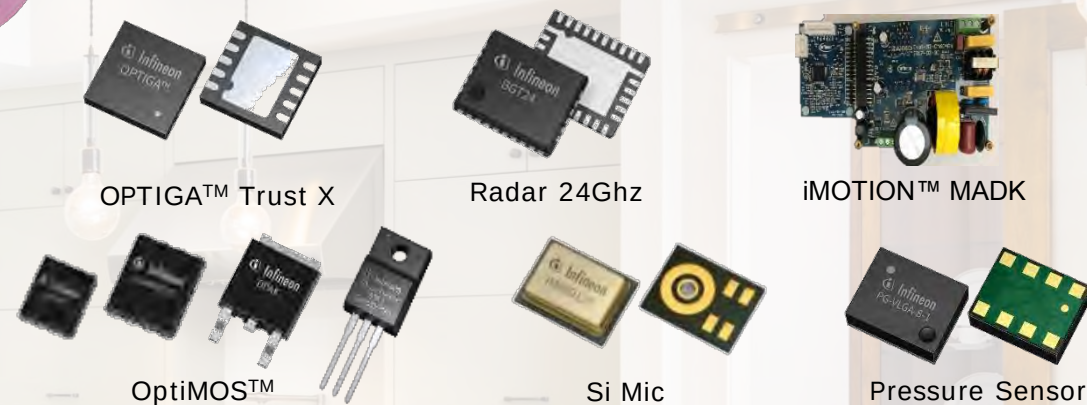


Smart Home





Smart Kitchen



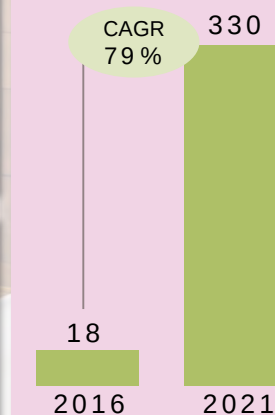
Power Efficient, Smart Home Appliances with Secured Connectivity

- › Power and sensor solutions for a Smarter, Greener Home
- › Hardware Security based OPTIGA™ Trust solutions protect against cyber attacks while ensuring platform integrity
- › XENSIV™ to enable Smart Automation in home appliances
- › ESD surge protection for home appliances

IFX Solutions to enable Use-case

- › OPTIMOST™, CoolMOST™ for efficient power management
- › iMotion/XMC & IPM (IGBT+Driver IC) for efficient motor control
- › OPTIGA™ Trust family for security & IP Protection
- › SiMic: voice control; Radar 24GHz/60GHz: smart environment / gesture control.
- › ToF Sensors for indoor navigation, gesture control & HMI.
- › ESD TVS Diodes for ESD surge protection

Smart connected HA (mil units)



Units shipment for clothes dryer, Dishwasher, large cooking, Refrigerator, Air conditioner, washing machine. Source: IHS

Smart Lighting



XENSIV™ BGT24



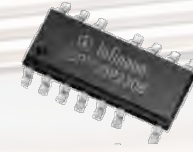
LED Driver



OPTIGA™ Trust



XDP Series



OptiMOS™



XMC1200

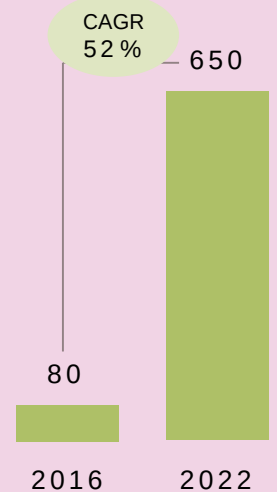
Intelligent lighting control & motion detection

- › Smart dimming with gesture control and XENSIV™ radar
- › OPTIGA™ Trust security solutions for IP protection and hardening against cyber attacks
- › XMC™ 1xxx for energy efficient LED lighting control and BCCU (Brightness & Color Control Unit) for flicker-free dimming & smooth automatic color change

IFX Solutions to enable Use-case

- › Radar 24GHz for motion/presence and lighting control, with localised flooding detection in kitchen or wet areas
- › LED Drivers for constant current to LED light engines with power efficient multi stage topology selections
- › CoolMOS™ and OptiMOS™ provide fast switching with low losses MOSFETS solutions
- › XDP digital IC family, all-in-one package solution that integrates a digital power controller with key peripherals
- › **OPTIGA™** for secure connection with Algo protection
- › XMC™ **1xxx** for automated LED Controls

Smart lighting (mil units)

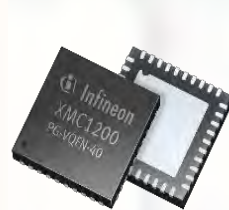


Units shipment for wireless embedded and connected home LED bulbs and lighting strips.
Source: ABI





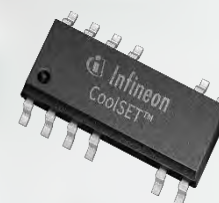
Home Energy Management



XMC1200



IGBT



CoolSET™



CoolMOS™



OptiMOS™

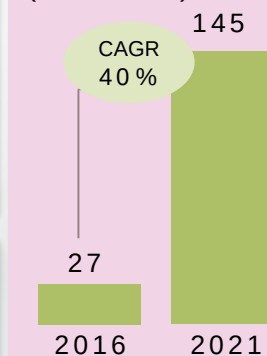
Greener Home Management with Smart Power and Sensing controls

- › Intelligent (e.g. Voice) & remote monitoring of power usage enabled by XENSIV™ SiMic
- › Secure motion sensing & smart enabling of devices with XENSIV™ radar sensors
- › Secure transmission of data by OPTIGA™ family of products for remote management

IFX Solutions to enable Use-case

- › iMotion™ / XMC and IPM (IGBT+driver IC), for energy efficient motor control
- › Control ICs, Driver ICs, CoolSET™, CoolMOS™, OPTIMOS™ for energy efficiency SMPS
- › **OPTIGA™** family for secure connection and mutual authentication

Energy Management (mil units)



Units shipment for clothes indoor smart plugs, dedicated heaters, radial controls, AC controls, thermostats, and multi-measuring units.
Source: ABI