

Infineon

IFX Day 2004

November 16, 2004 - Munich

Automotive & Industrial

Dr. Reinhard Ploss

CEO of Automotive & Industrial Group



Never stop thinking.



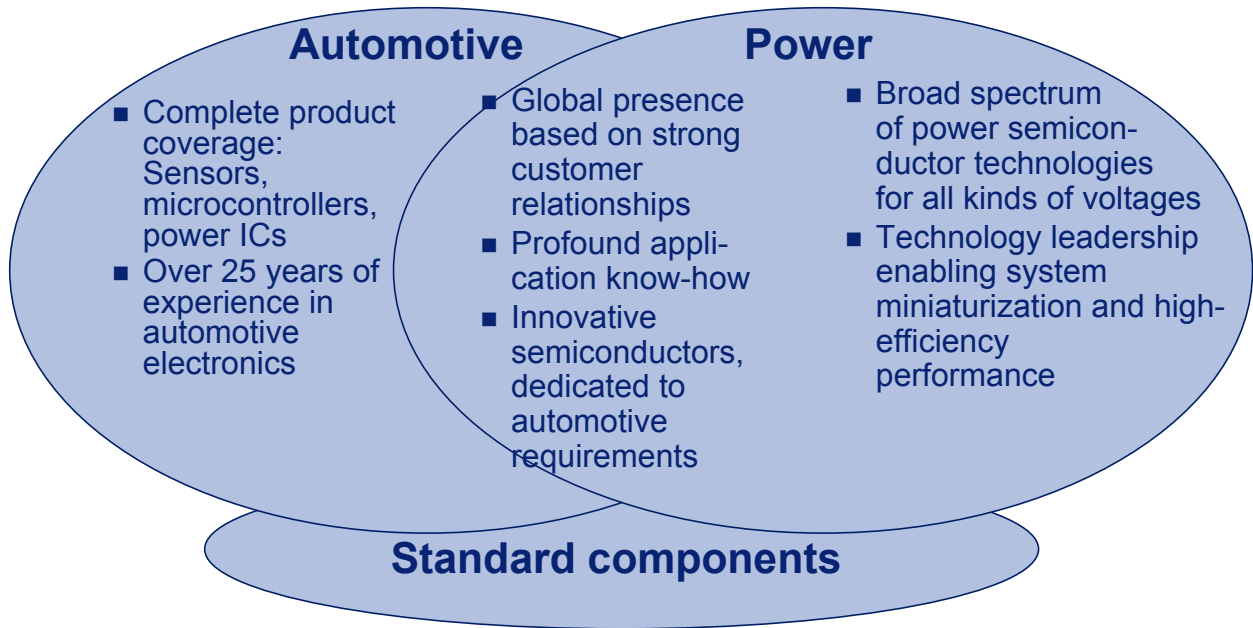
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AI business is focused on automotive and power

AI core competencies



Revenue growth: 11.4% y-o-y*
EBIT margin improved to 13.4% from 11.4% y-o-y*



Leading positions by increasing market shares in both segments



Infineon Automotive 2003
No. 2 World No. 1 Europe No. 3 US

Infineon Power 2003*
No. 1 World No. 1 EU No. 4 US

		2003	2002
1.	Freescale	12.9%	13.4%
▲ 2.	Infineon (2)	8.7%	8.2%
3.	STM	7.6%	6.6%
4.	Renesas	7.0%	n.a.
5.	Bosch	6.4%	5.2%
6.	Toshiba	6.1%	6.2%
7.	NEC	6.0%	6.1%
8.	Philips	5.7%	5.9%

		2003	2002
▲ 1.	Infineon (4)	8.1%	6.6%
2.	IR	8.0%	7.6%
3.	STM	7.9%	6.3%
4.	Fairchild	7.4%	6.7%
5.	Toshiba	7.2%	8.6%
6.	Vishay	6.1%	6.3%
7.	Renesas	5.0%	n.a.
8.	Fuji	5.0%	4.0%

- Market: USD 13.128 bn
- 5Y CAGR: 7-8%

- Market: USD 9.358 bn
- 5Y CAGR: 10%

Source: Strategy Analytics, 2004

Source: IMS, 2004

* Discrete power

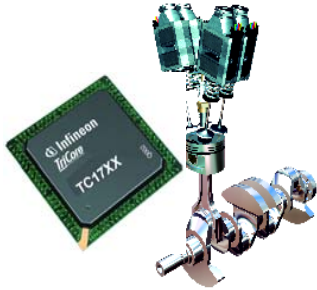
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Broad product portfolio for complete coverage of applications

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Defining automotive intelligence



Applications:

- Powertrain
- Safety management
- Body & convenience
- Infotainment

Products:

- Sensors
- Microcontrollers
- Power devices
- Wireless chipsets
- Silicon discretes 

Converting and controlling Power



Applications:

- AC/DC conversion
- DC/DC conversion
- Consumer drives
- General-purpose drives
- Tuners

Products:

- Sensors
- Microcontrollers
- Thyristors / diodes
- Discrete power
- IGBT modules and bipolar modules
- Power ICs
- Tuner ICs
- Silicon discretes 

Complete product/application portfolio Industrial/Power: Focussing on Drives & Power Management

Eupec (Drives)

- **Extension to lower power applications (consumer drives)**
 - New IGBT trench technologies for power modules (consumer drive and traction)
- **Complete portfolio for power control**
 - New driver IC and board to expand system solution offering for general-purpose drives

DP (Discrete & Power Management)

- **Expand portfolio for system solutions and into new markets**
 - New driver ICs to complete DC/DC system solution for desktops
 - New DC/DC product family in new Super SO8 package to enter notebook market
- **Continued success story for CoolMOS**
 - New family CoolMOS CFD and CoolMOS 650V AC/DC for high-end PCs and server (higher reliability and less loss)
 - New CoolSet family (3rd generation) for AC/DC consumer application

Increased regional focus by significant regional revenue increase



No. 1 - Power semiconductors with 8.1% market share

No. 2 - Automotive semiconductors with 8.7% market share

No. 2 - RF discretets, transistors / RF diodes with 16% market share



+11%*

- No. 3 in Automotive (6.6% MS)
- No. 4 in Power (9.6% MS)

* corresponds to a growth of 25% in USD currency



+29%

- No. 8 in Automotive (2.1% MS)



+6%

- No. 1 in Power (19% MS)
- No. 1 in Automotive (15% MS)
- No. 2 in Silicon Discretets (16% MS)

APAC

+23%

- No. 1 with OptiMOS in motherboards (approx. 30%)
- No. 3 in automotive semiconductors (approx. 6%)

+X%

AI EUR revenue growth FY03 – FY04 by region
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Business highlights FY03/04

Automotive

- Major breakthrough in NAFTA
 - Powertrain with 32-bit TriCore, power ASICs and sensors
 - Safety (airbag, rollover protection)
- Successful integration SensoNor
- Major design wins for TPMS
- Licensing Bosch GMR technology
- Major design-wins with 16-bit μ C in Electric Power Steering (EPS)
- Engagement in standardization
 - Premium member AUTOSAR
 - Joined FlexRay consortium

Industrial

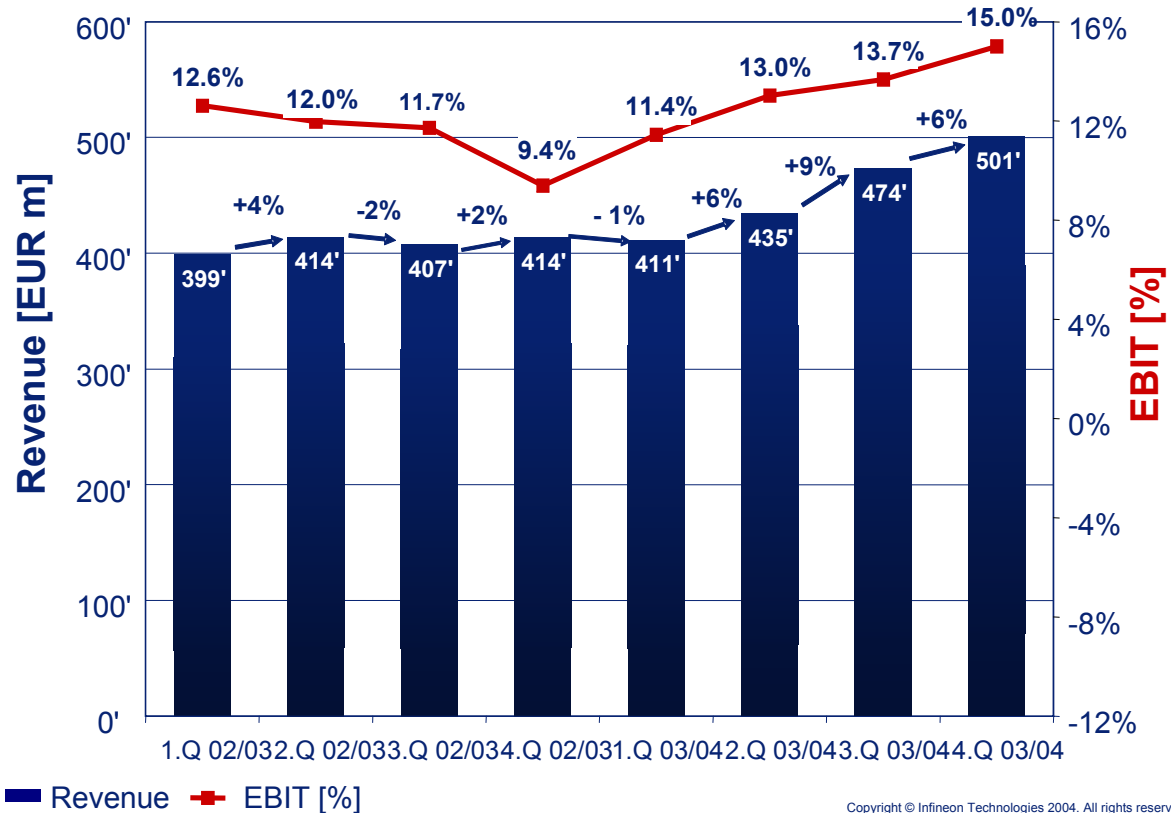
- No. 1 in Power Semiconductor (IMS)
- Ensured >30% market share in motherboard by major design wins with OptiMOS2
- Entry into new markets with 30V OptiMOS in Super SO8 (notebook)
- New LightMOS technology (lamp ballast)
- Launch of DC/DC system solution
- Launch of drives system solution
- New TriCore based industrial controller
- TriCore honored as best Low-Power Embedded Processor
- Best Supplier Award from ASUSTEK

Fabrication

- Responsibility for Power Wafer Fabrication Cluster now with AI
- Integration of Silicon Discretives \Leftrightarrow Standard components now concentrated in AI
- Silicon foundry contract with ASML

2003/04 – Another record fiscal year again

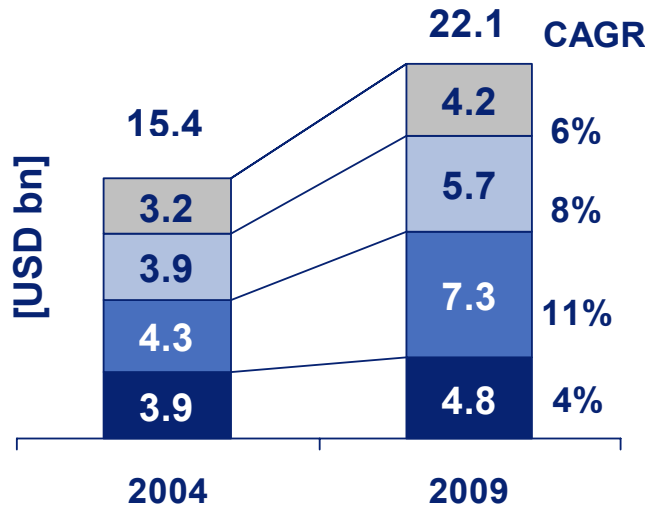
Revenue and EBIT, BG AI incl. DS quarterly



The same procedure as every year: No change in the 5-year outlook for Automotive ...

Automotive semiconductor market CAGR 8%

Key trends



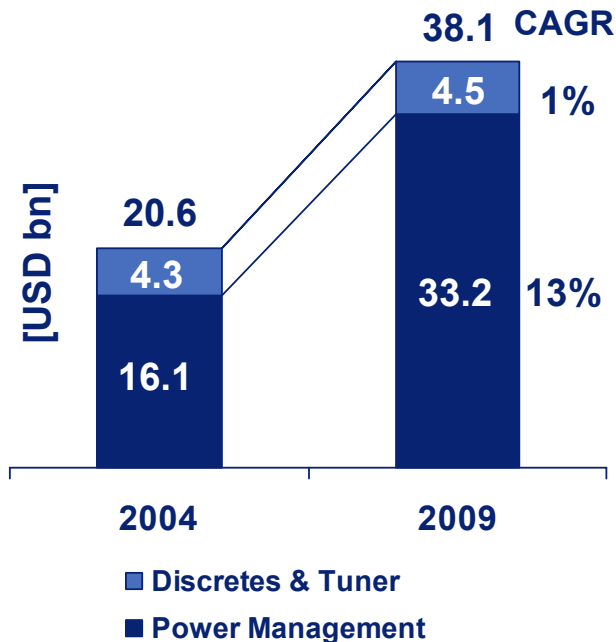
■ Powertrain ■ Safety □ Body □ Infotainment

- **Tighter regulations:**
 - Environment Protection (EU5, OBD2, BIN5, LEV2)
 - Safety: TPMS, Rollover, ESP
- **More Innovation:**
 - Energy management
 - Drive-by-wire
 - Replace Hydraulics/Mechanics
 - New features
- **More standardization:**
 - Busses (CAN, LIN, FlexRay)
 - AUTOSAR (software)
- **New system architecture:**
 - Fewer but more complex ECUs
 - Decentralized smart actuators
 - Smart sensor nodes
- **Higher Quality:**
 - 0 defects
 - Key differentiator

... promising future stable growth

Power market driven by demand for maximum efficiency ...

Power, discretets & tuner market CAGR 13%



Key trends

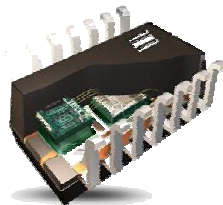
- **DC/DC**
 - Cost / Ampere, Footprint / Ampere
 - Solution business in PC motherboard and notebook
 - Shift of R&D for power supplies to China/Taiwan
- **AC/DC**
 - Miniaturization of power supply
 - Higher switching frequencies
- **Drives**
 - Further demand for energy savings
- **Consumer drive/DC/AC**
 - Increasing inverter share
 - Solution for lamp ballast
- **Silicon Discretets**
 - Integration into ICs or modules
- **Tuner**
 - Digital broadcasting systems & convergence with cellular systems

... enabled by high integrated solutions

System-in-Package (SiP) solutions for automotive

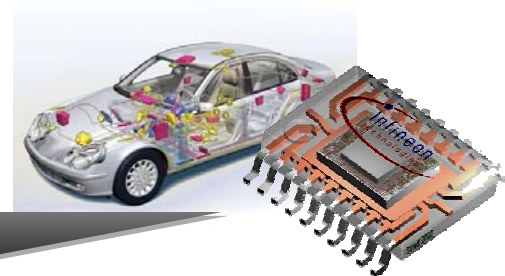
Tire Pressure Monitoring (TPMS)

- 535* fatality accidents (US) due to wrong tire pressure ⇒ Monitoring
 - Incipient legislation-driven US market*) for new cars:
 - 50% of cars from Sept. '05
 - 90% of cars from Sept. '06
 - 100% of cars from Sept. '07
- ⇒ **IFX SiP solution (sensor, micro and wireless data transmission).** Well-proven series production of a highly integrated chip-set solution.



Embedded Power

- Increasing decentralization and networking in the car
 - Smart actuators, diagnosis and distributed power management
 - More mechatronic modules
 - Cost optimization on system level
- ⇒ **Reducing overall system cost by embedding power chip and microcontroller in SiP**

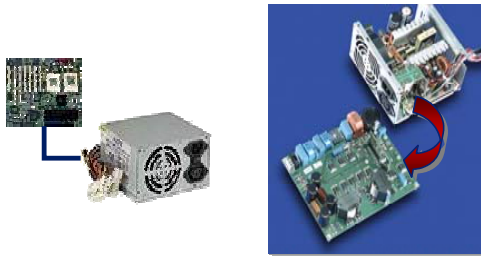


Highly integrated products for cost-sensitive applications

Electronic system solutions for industrial applications

AC/DC, DC/DC solutions for PC and notebook

- Computer standby consumption in US equals 4 nuclear power plants
 - DC/DC conversion: Usual 20% losses
 - AC/DC conversion: Usual 30% losses
 - Yearly saving in energy cost in US can be as much as USD 0.9 bn*
- ⇒ **Highly efficient AC/DC, DC/DC converter solutions**



Consumer Drives

- Higher energy efficiency and convenience for air conditioning
 - Lower water/energy consumption, shorter run times of washing machines
 - Lower energy consumption and quieter operation of refrigerators
- ⇒ **Power module for variable-speed drives (power + micro)**

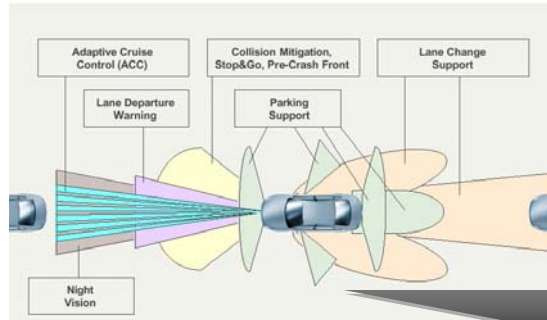


Leveraging know how from different product units

Early entry into promising emerging market segments

Driver Assistant Systems

- > 53%* of accidents due to lane/road departure, inattentive & drowsiness
 - From active safety to pro-active safety, 'cocoon around the car', eSafety initiative
 - Radar & imaging sensors: ACC, LDW, blindspot, pre-crash, parking aid
- ⇒ **IFX solution for radar sensor part based on unique SiGe technology**



Digital Tuner

- Digital TV market to reach USD 70 bn in 2008** major growth in DVB-H, starting 2007
 - 80% of current phone users want TV, 60% are willing to pay for it***
 - IFX today has 70% market share in tuner for fast growing digital terrestrial (DVB-T)
 - DVB-H is based on DVB-T, optimized for low power and higher robustness
- ⇒ **Leveraging tuner know-how from analog/digital and current market position**

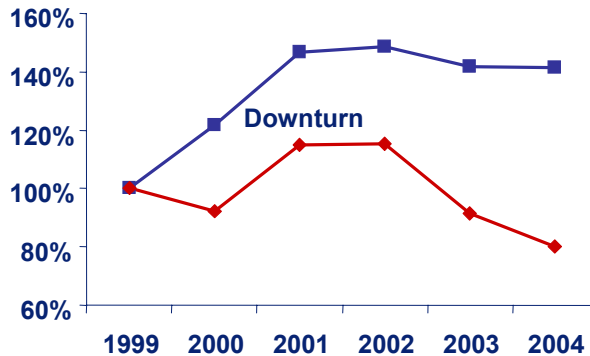


**Leveraging advanced technologies
and know-how for future profitable growth**

Sufficient capacity, best-in class quality, competitive cost structure

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Power Wafer Fab Cluster



- Capacity (indexed)
- ◆ Cost per mask layer (indexed)

- Further **capacity build-up** and ensured **competitive cost position**
 - 6" to 8" transfer, (today 60% already on 8")
 - Future capacity expansion in APAC
- **Increased flexibility** through
 - Increased silicon foundry usage
 - Increased usage of temporary workers
 - Switching from location- to function-based set-up = 3 locations but 1 virtual fab

Quality



- No. of Products delivered (indexed)
- ◆ DPM (indexed)

- Project target: **Zero Defects**
- **Achievements** after 1.5 years:
 - Fewer complaints and re-occurrent failures
 - 54% of products with 0 ppm
 - 94% of products < 1 ppm
 - Improved customer ratings/audit results
 - Increased organizational quality awareness



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