

Infineon

**Cheuvreux
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Memory Products Group

Thomas Seifert

**Senior Executive Vice President
and General Manager, Memory Products Group**



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Agenda

Market positioning and development

New organization

Infineon MP's strengths and potentials

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Infineon: Leading European semiconductor company in 2004

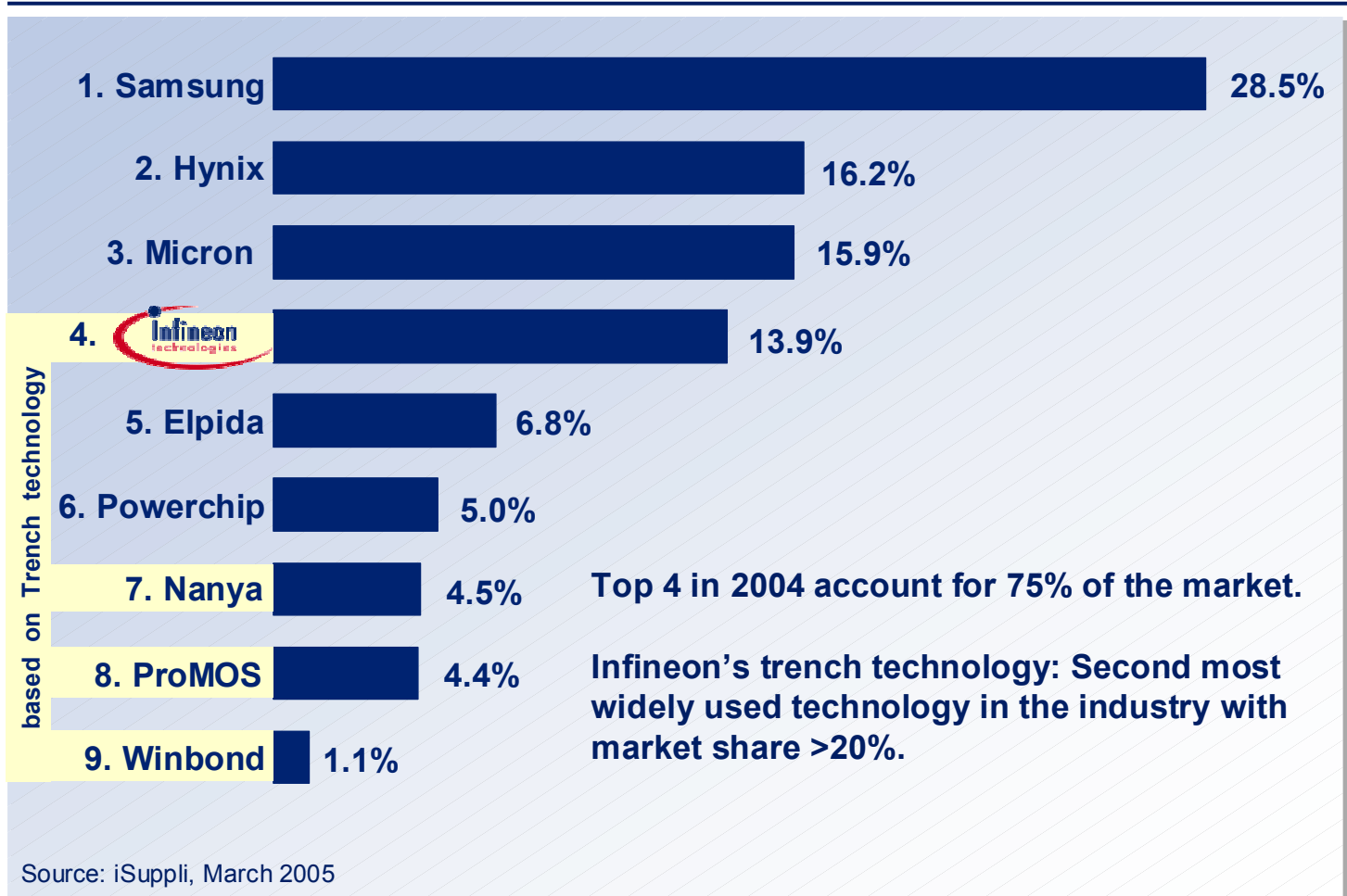
Rank	Gartner		iSuppli		IC Insights	
	Company	revs. in USD bn	Company	revs. in USD bn	Company	revs. in USD bn
1	Intel	30.5	Intel	31.1	Intel	30.4
2	Samsung	15.6	Samsung	15.1	Samsung	16.1
3	TI	9.7	TI	10.3	TI	10.9
4	Infineon	8.9	Infineon	9.4	Renesas	9.5
5	Renesas	8.8	Renesas	9.0	Infineon	9.4
6	Toshiba	8.8	Toshiba	8.9	Toshiba	9.0
7	STM	8.8	STM	8.8	STM	8.7
8	NEC	6.8	NEC	6.7	TSMC	7.6
9	Philips	5.7	Freescale	5.7	NEC	6.7
10	Freescale	5.7	Philips	5.7	Freescale	5.7

Sources: Gartner, Dec 2004 (prelim.)

iSuppli, Dec 2004 (prelim.)

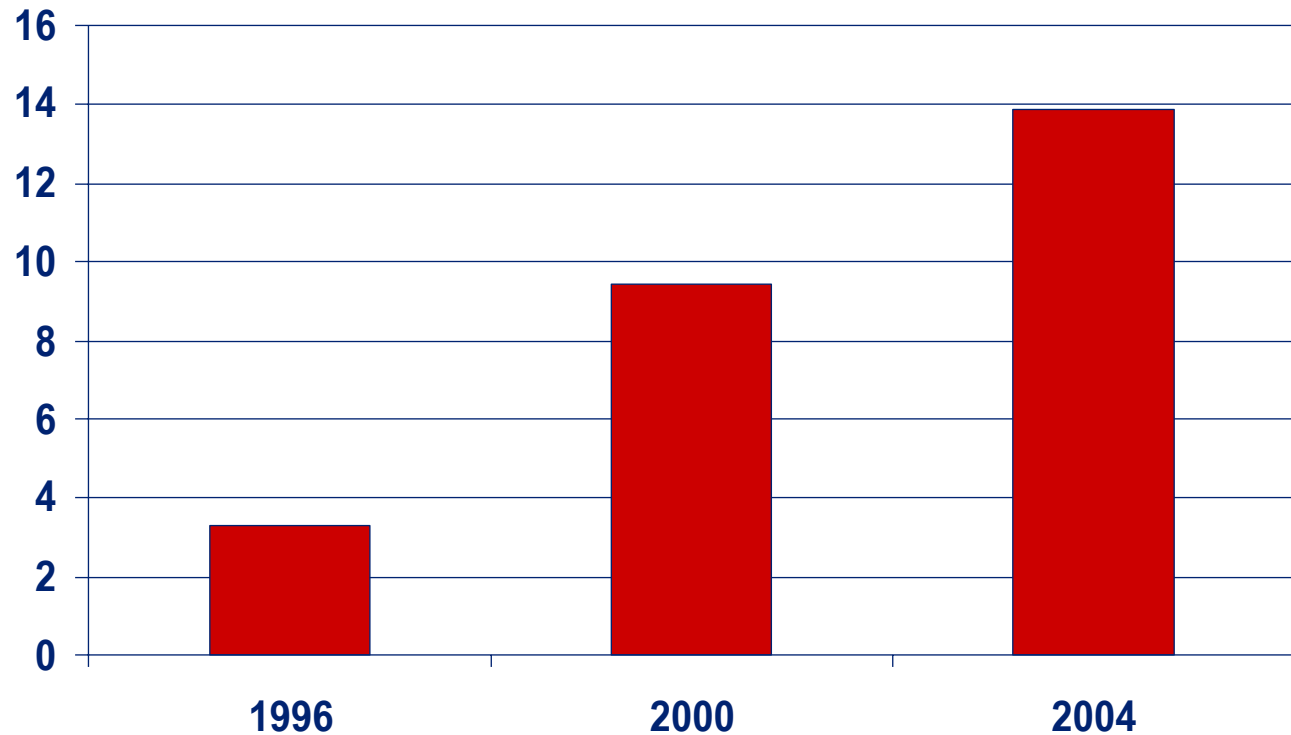
IC Insights, Jan 2005 (prelim.)

Worldwide DRAM revenue ranking 2004

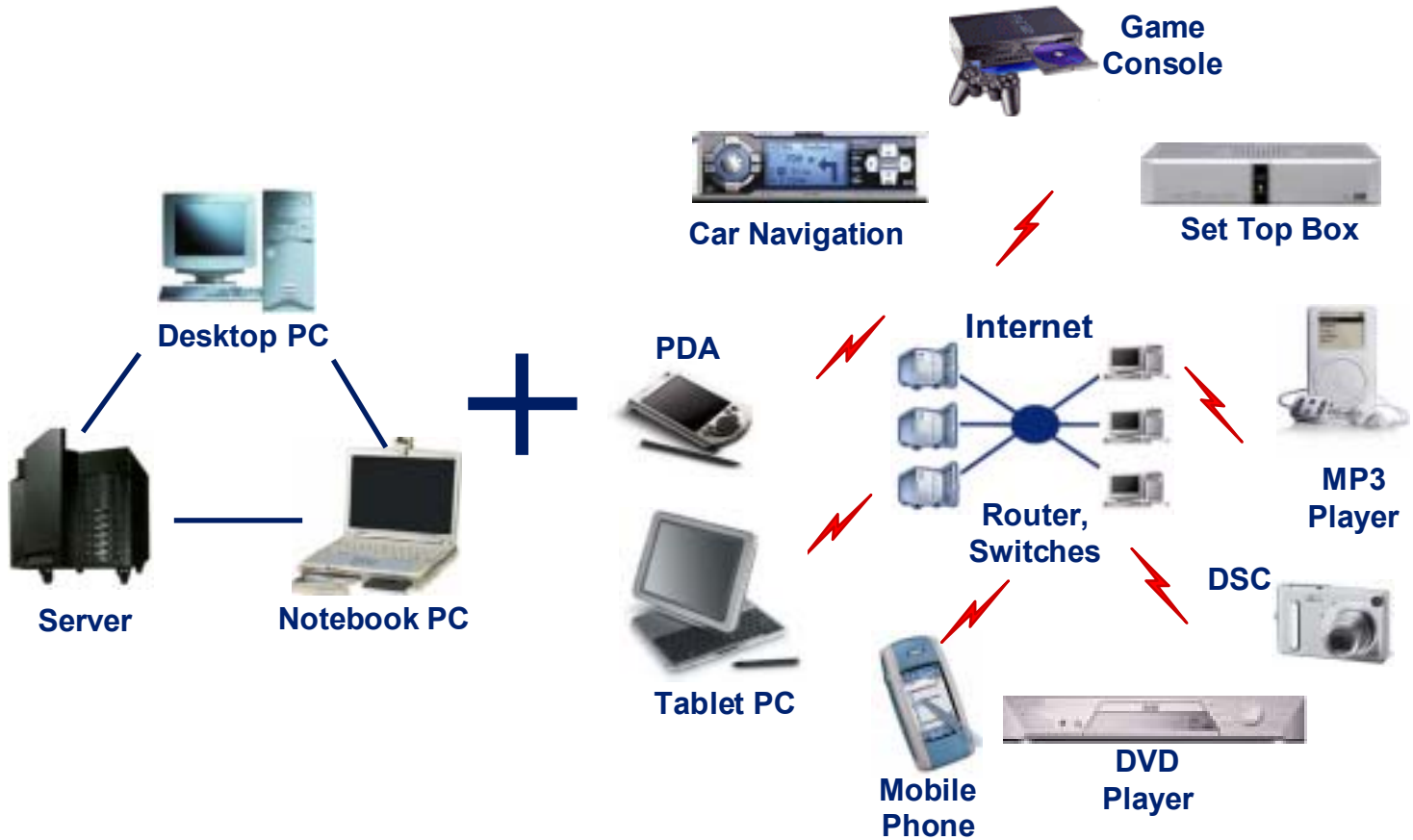


Infineon MP growth: from 3% to 14% market share

Infineon DRAM world market share in %

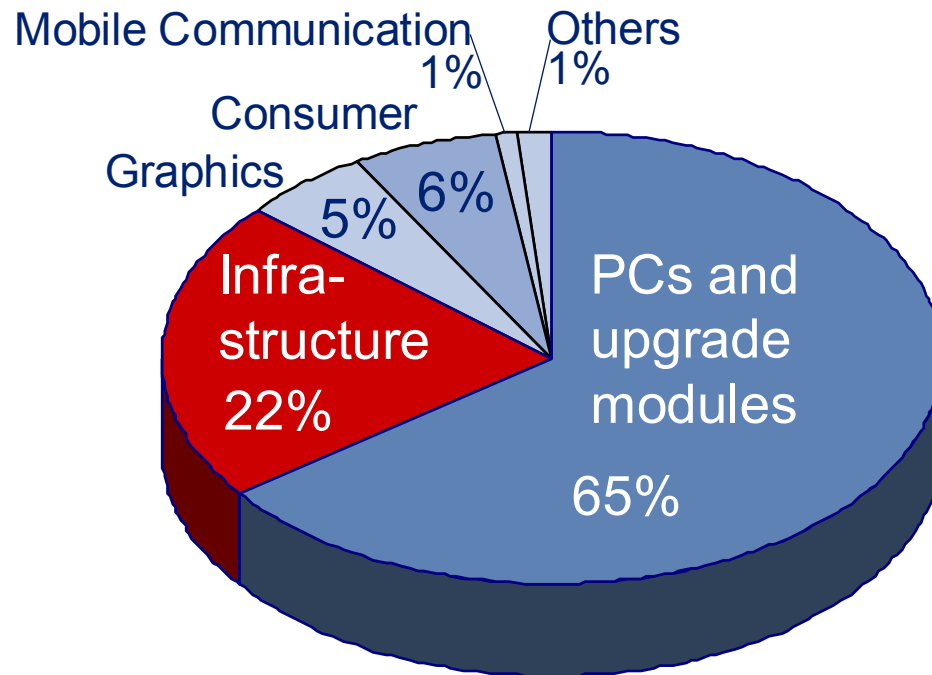


The market place – new memory applications



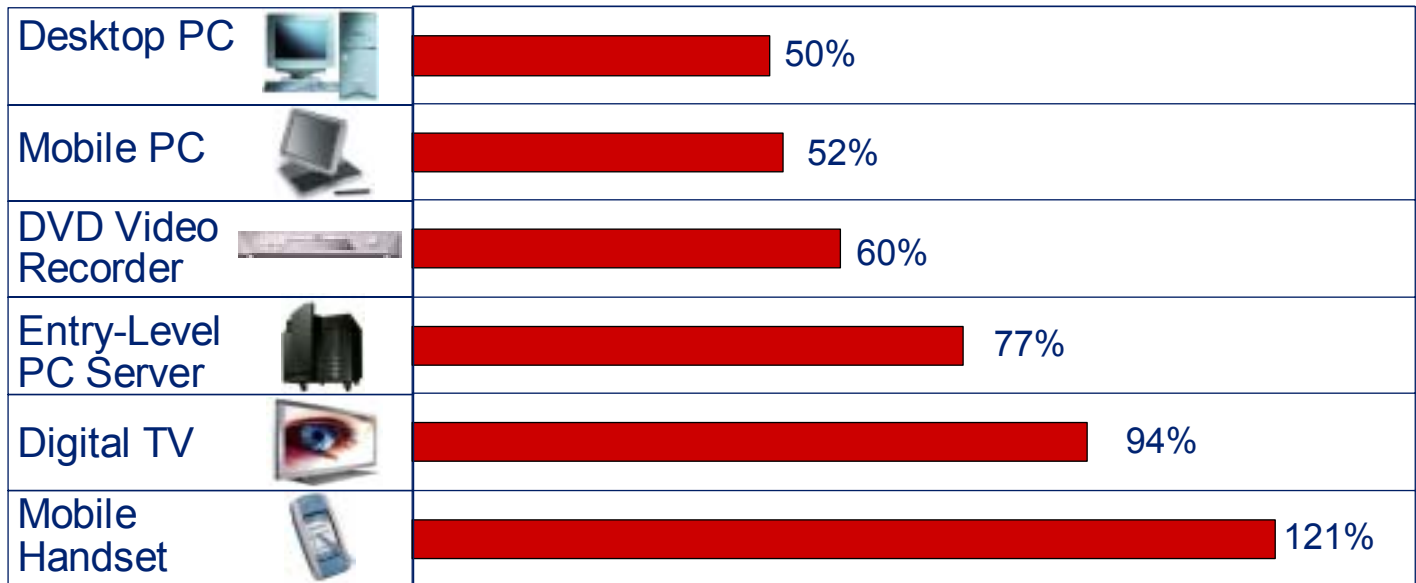
PCs dominated the DRAM market in 2004 ...

2004 application market share by bit consumption*



... but other applications are expected to dominate in growth

Expected CAGR 2004 – 2008 of bit demand*

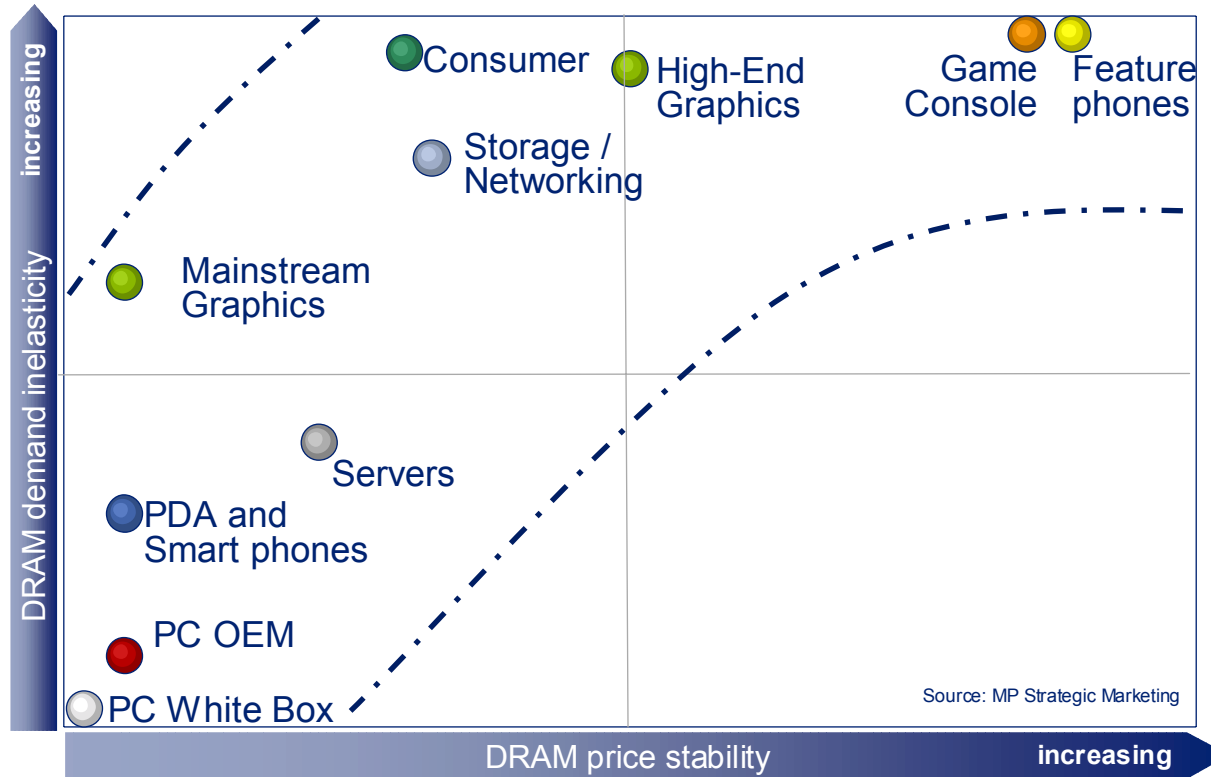


Top DRAM suppliers' challenge is the right mix of:

- ⇒ Volume products for computing segment
- ⇒ Innovative products for leading-edge applications
- ⇒ Legacy or standard products for upcoming consumer demand

* Source: iSuppli, Q4 2004

Not all DRAMs are the same



DRAM price and demand behavior is application specific:
 Customer confidence in supplier and time-to-market for products required to enter less volatile application segments.


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The new organization of the Memory Products Group: Focus on applications and market segments

Business Units	Computing		Graphics	Consumer & Mobile	Flash
Application (Selection)	<ul style="list-style-type: none"> ▪ Desktop PC ▪ Notebook PC ▪ Server ▪ Workstation ▪ Storage ▪ Networking 	<ul style="list-style-type: none"> ▪ Desktop PC ▪ Notebook PC ▪ Workstation 	<ul style="list-style-type: none"> ▪ Graphics ▪ Game Console ▪ Game Handhelds 	<ul style="list-style-type: none"> ▪ Mobile Phones ▪ Set-Top-Box ▪ DVD Players & Recorders ▪ DSC ▪ MP3 Players ▪ Car Navigation ▪ PDA ▪ Digital TV ▪ Printing 	<ul style="list-style-type: none"> ▪ Mobile Phones ▪ DSC ▪ MP3 Players ▪ USB Drive ▪ Set-Top-Box ▪ PDA ▪ Flash cards
Drivers	Replacement Performance Internet Infrastructure Bandwidth Data Warehouse	Performance Emerging markets White boxes	Performance Digital Lifestyle 3D picture New games	Mobility Digital Lifestyle Low-Power Info. Mgmt. Content Download	Data Storage Digital Lifestyle Mobility

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Low-power consumption of DRAMs: Gaining in importance

- **Lower power consumption means less heat dissipation**

DRAM applications like server or notebooks offer increasing performance in an ever smaller space. The dissipation of the generated heat is already challenging. Less power consumption means less production of heat.



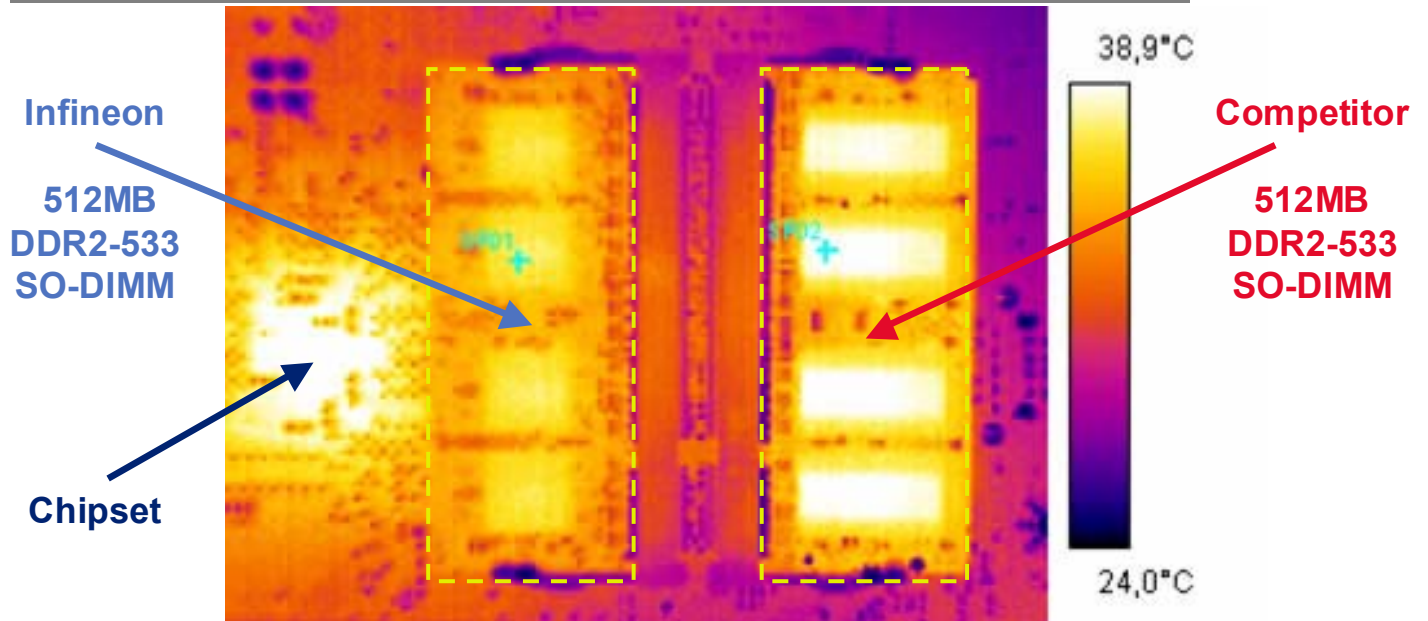
- **Lower power consumption means longer battery lifetime**

Battery lifetime is an important criteria of choice when purchasing mobile equipments. DRAMs with low power consumption help to increase the attractiveness of these devices.



Heat dissipation of Infineon modules in comparison: Real live measurement shows reduced power consumption

Thermal comparison of IFX and competitor DDR2 SO-DIMMs



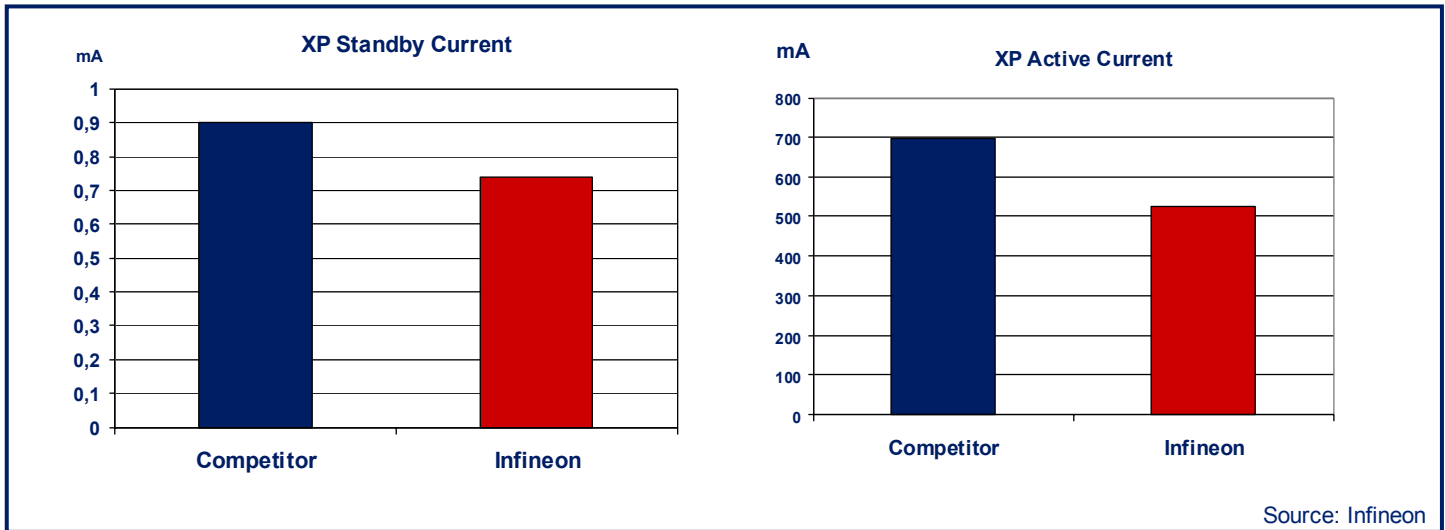
System in dual channel operation, DDR2-533, running memory test with simultaneous load on both modules

System: Intel Ohlone Alviso CRB, Test: Infineon Memory test, Butterfly subtest, Single measurement

Modules: left: Infineon HYS64T64020GDL-3.7-A, right: Micron MT8HTF6464HDY-53EA3 (Crucial)

⇒ Infineon's first generation 512Mb DDR2 is industry benchmark for active power consumption.

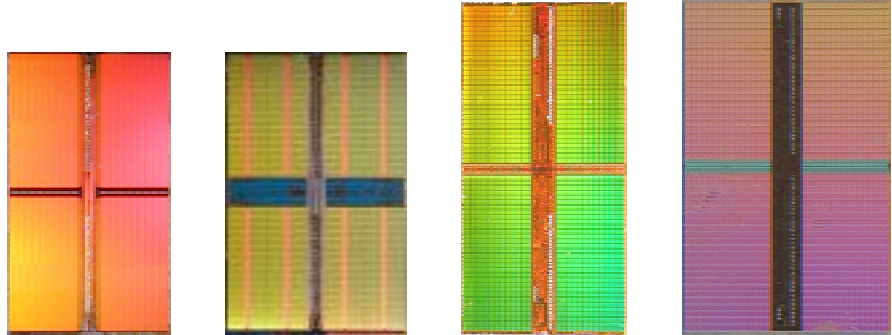
Infineon DRAMs are the industry benchmark for low-power: Windows XP current consumption comparison



Both in standby and active modes of Windows XP, Infineon's DDR2 modules draw less current than competitor modules.

Values shown for fully loaded Alviso system with 2 x 512MB SO-DIMMs in dual-channel mode
 System: Sony Alviso DDR2 notebook Modules: IFX HYS64T64020GDL-3.7-A, Micron MT8HTF6464HDY-53EA3 (by Crucial)
 Single calibrated measurement over 10hm resistor in opened VDD line to the two SO-DIMMs.
 Standby current measurement averaged for 10min idle time; active current measurement with XP memory test and Quake2.



Smallest 256M DDR in 110nm volume production



Manufacturer	Infineon	Micron	Samsung	Hynix
Min. pitch [μm]	0.22	0.23	0.22	0.24
Cell area [μm^2]	0.097	0.079	0.104	0.120
Die area [mm^2]	42.5	44.0	48.5	53.5
Cell efficiency [%]	61.1	48.0	57.5	60.2
		<i>6F²</i>		

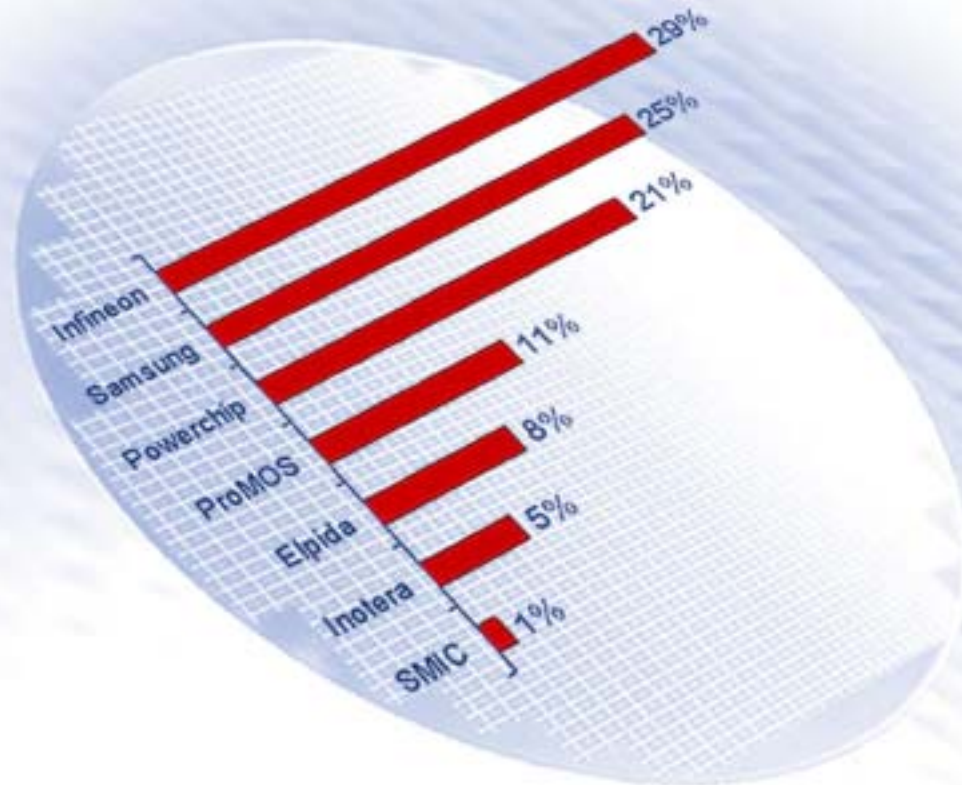
Source: Infineon, 2004

Trench technology on track for 90nm and 70nm shrinks

Node	Status
90nm 	<ul style="list-style-type: none"> - Key innovations: <ul style="list-style-type: none"> - New cell layout - Bottle-shaped trench technology - IFX is 2nd manufacturer to have 90nm-based product validated by Intel - Customer samples from 200mm: 512M DDR - Successful transfer to 300mm line: yields now comparable to 200mm wafers - Volume ramp-up on schedule for mid-2005
70nm 	<ul style="list-style-type: none"> - Key innovation: High-κ dielectric fill in trench technology - First demonstrators on 300mm available: 512M DDR2

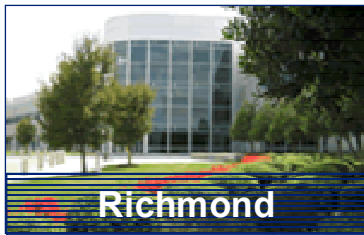
Leader in 300mm DRAM manufacturing in 2004

12-inch Wafer Production Market Shares in 2004



Source: iSuppli, February 2005

Expansion plans for 300mm capacities in 2005





MP's alliances: Share risks and benefits and optimize economies of scale

MP alliance model today

Joint development partnerships

Manufacturing partnerships

Secure mask technology development



Production of worldwide leading-edge masks

Co-development of 90nm and 70nm DRAM technology



Joint manufacturing in Taiwan using 300mm technology

License from Saifun and development of Flash technology



Development and production of data flash and code flash

Joint development of specialty DRAM products



License of 110nm and 90nm DRAM technology in exchange for capacity



Development of MRAM

Foundry agreements for 8" and 12" capacities



Infineon – worldwide customers

Business Groups

Customers

AIM

**Automotive,
Industrial &
Multimarket**

- Autoliv
- Axalto
- Bosch
- Conti AS
- Delphi
- Delta
- Denso
- Gemplus
- Giesecke & Devrient
- Hella
- JCAE
- Lear
- Siemens
- TRW
- Visteon

COM

Communication

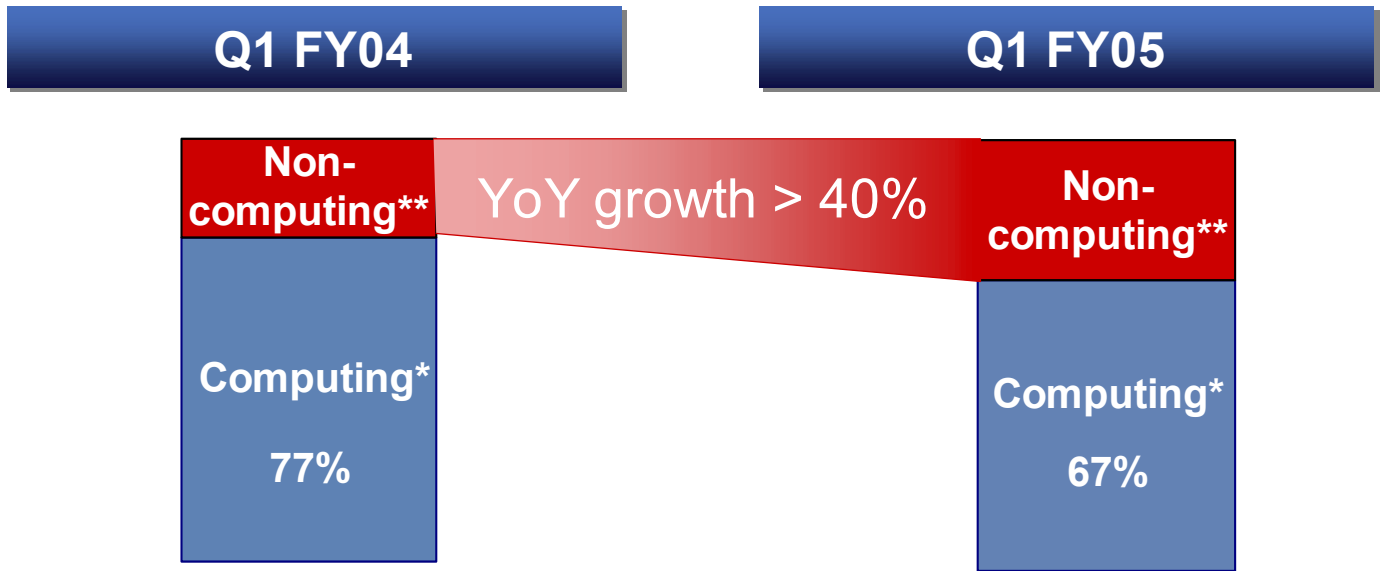
- Alcatel
- Cisco
- Ericsson
- Fujitsu
- Huawei
- Lucent
- Marconi
- Matsushita
- Motorola
- NEC
- Nokia
- Nortel
- Samsung
- Siemens
- Sony
- Vtech
- ZTE

MP

Memory Products

- Acer
- Cisco
- Dell
- Fujitsu Siemens
- HP
- IBM
- Kingston
- Lenovo
- NEC
- Sony
- Sun

Bit-shipment share of non-computing DRAMs grew by more than 40% YoY in Q1 FY05

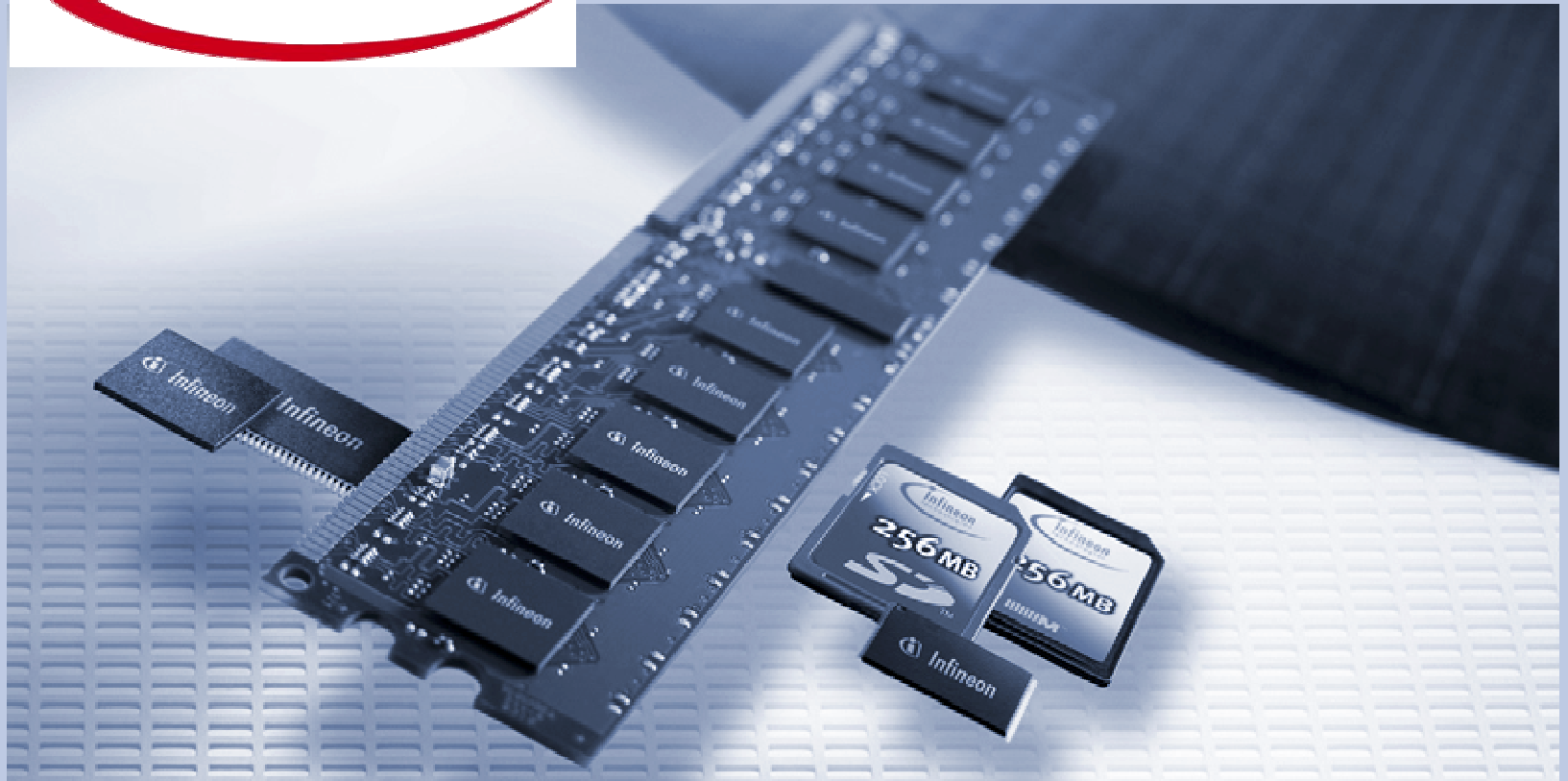


* Desktop PCs, Notebooks and Workstations; ** Infrastructure, Consumer, Graphics, Mobile Applications

- ⇒ A leading supplier to server manufacturers
- ⇒ Leading with Mobile-RAMs
- ⇒ Increasing shipments of graphics RAM
- ⇒ Increasing share of shipments for set-top boxes

Summary

- Infineon continues to focus on the development of leading-edge technology and manufacturing capacities.
- Leader in 300mm manufacturing with financially sound path to almost full conversion within 4 years.
- We leverage risks and opportunities together with partners.
- Memory market applications are broadening, offering opportunities for growth and stability of price.
- We capitalize on our broad customer base to extend our product portfolio.



Never stop thinking.