

Company Overview



Company Brief	
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- ASIC Solutions
- Fujitsu 90nm Solutions
- IP Portfolio
- Manufacturing to Logistics
- Conclusion



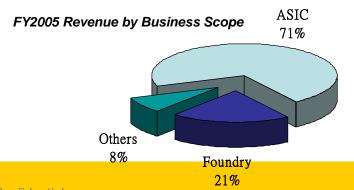


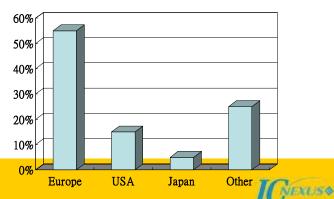
- Organization
- Manufacturing Partner Network
- Capability
- Our Value
- ASIC Solutions
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Company Brief- General Info

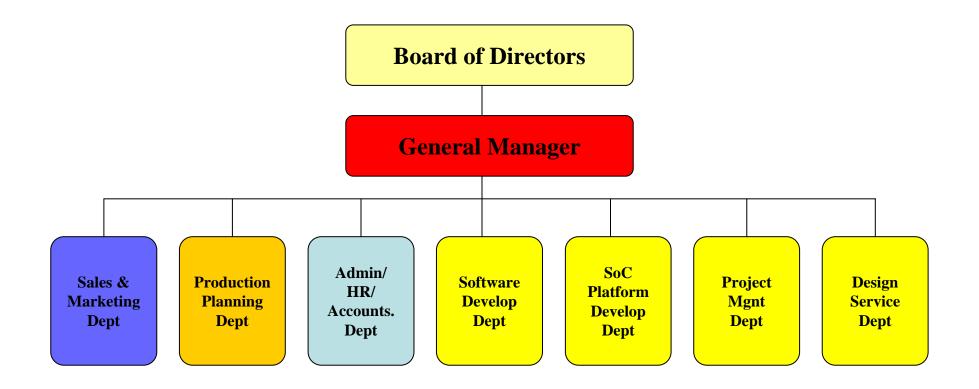
- 1996 > An independent ASIC business unit in a Taiwanese network company
- January 2000 > spun off and named IC Nexus
- Specialized in
 - 1. ASIC solutions- RTL/Netlist handoff to GDS/Wafer/Chip
 - 2. IP solutions- comprehensive IP portfolio also partnering with foundry and IP venders to achieve true one-stop design services
 - 3. Foundry services- multi-foundry support, MPW services
 - 4. Packaging and test services- Wafer probe, diverse package solutions, SiP/MCM, FT, and logistics
- Privately owned and mainly by the management team
- \triangleright FY2005 sales revenue \sim 8M USD





FY2005 Revenue by Region

Company Brief- Organization

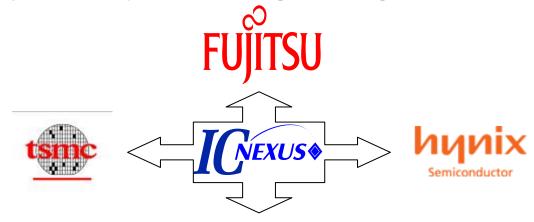




Company Brief- Mfg Partner Network

Multi-Foundry Support

Especially with Fujitsu- Strategic, Long-term Partnership



OTHERS- VIS, Siltera...

- Diverse Assembly and Test Partner Base
 - ASE Group, Amkor, Greatek, Advanced Interconnect Technologies, Taiwan IC Packaging, Formosa Advanced Technologies, Test-Serv, True Test...



Company Brief- Capability

Broad Technology Portfolio

- □ 65nm, 90nm, 0.13um, 0.18um, 0.25um, 0.5um, 0.6um
- Logic, Mixed-Signal, High Voltage, Standard Cell,
 Embedded Array, Gate Array, ARM based SoC, Structured ASICs, FPGA Conversion





Company Brief- Our Value

Our Value

- > State of Art Technology
- Broad Design Support
- Fast Time to Market
- Short Time to Volume
- Competitive Pricing



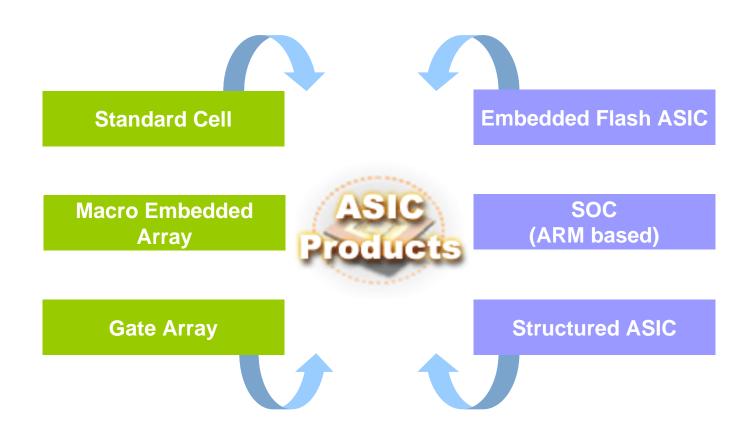
 One-Stop Shop to Satisfy Customers' IC Design Service and Manufacture Demand with Proven Capabilities and Track Records



- Company Brief
- **ASIC Solutions**
 - Overview
 - Category I,II,II
 - Business Models
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ASIC Solutions- Overview



Broad ASIC Support to Satisfy Your Demands



ASIC Solutions- Category I

Standard Cell

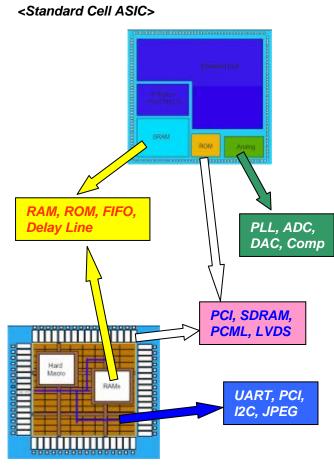
- **90**n, 0.11u, 0.13u, 0.18u, 0.25u, 0.35u, 0.5u
- Fully Optimized Silicon Performance
- Highest Configuration Flexibility

Macro Embedded Array

- 0.18u, 0.25u, 0.35u
- A Variety of Embedded Functions
- Fast Time to Market and Volume

Gate Array

- **0.65um, 0.35um**
- Very Low NRE Cost
- Fast Time to Market and Volume



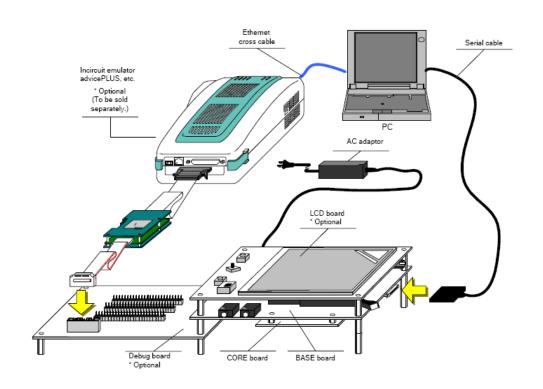
<Macro Embedded Array ASIC>

Versatile ASIC Technologies to Fit Your Demand Profile



ASIC Solutions- Category II

- SoC (ARM Based)
 - ARM7TDMI-S
 - □ ARM926EJ-S
 - ARM946E-S
 - **□** ARM1176JZF-S



Development Kits for ARM926EJ-S Available
 T-Engine Board, Debug Board, LCD Board with Touch Panel,
 FPGA Expansion Board, LAN Board, Battery Board, and others



ASIC Solutions- Category III

Structured ASIC

Alternative to high end ASSPs, FPGAs and cell-based ASICs

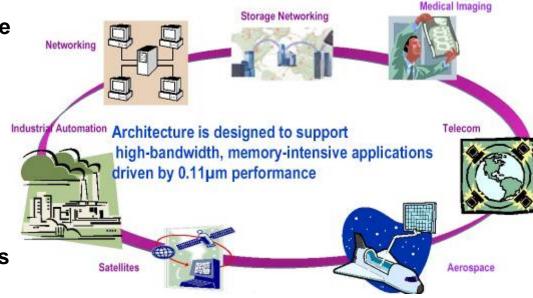
- □ Competitive Cost
 - NRE cost: 80% less than cell-based ASICs in 0.11µm technology
 - Lower power consumption with performance similar to cell based ASIC

■ Time to Market

 Short Time-to-Marke similar to FPGA (8 weeks)

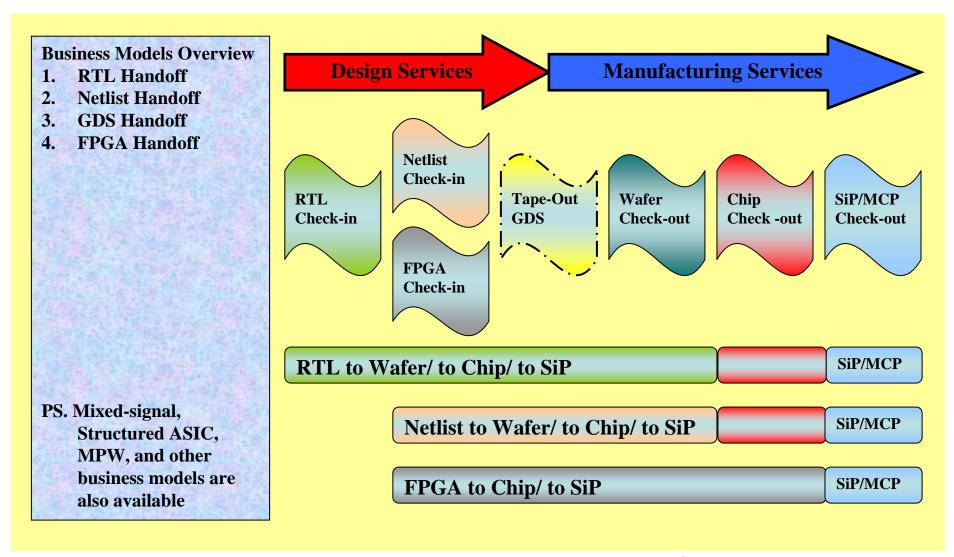
Performance

- 3x performance of high end FPGAs at lower costs
- Power dissipation is twice better than similar solutions





ASIC Solutions- Business Model



— Meet Your Different Design Interface and Design Support Requests





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 - Highlight
 - What We Offer
 - Benchmark
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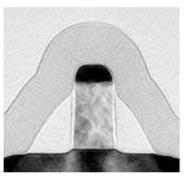
Fujitsu 90nm Solutions- Highlight

- Rank Top 5 ASIC Supplier Worldwide (From: Gartner Dataquest)
- Proven Track Records of 90nm

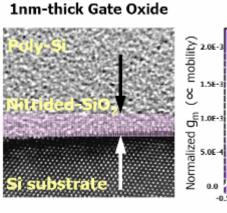
PRIMEPOWER and PRIMEQUEST Computing Processors and Chipsets; FOMA 3G Mobile Phone Base-band Chip; Transmeta CPU; Lattice FPGA, etc. In Excess of 80 Taped-out Products with Chipsizes from 20mm² to 450mm².

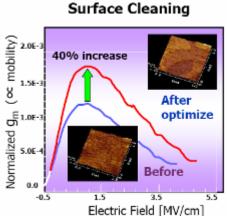
High Performance Transistors

Advanced Lithography and Etch Technology to Achieve 40nm Gate Length; Low Temp Process for Shallow Junction; Process Optimization for High Carrier Mobility; Low-k (~2.9); Dual Damascene Cu; High Density 6T SRAM with sub-1um² cell.



<40nm Gate>







Fujitsu 90nm Solutions- What We Offer

Low-Leak to High-Performance Process

Ex. Low-Leak Process Cell Library Lineup

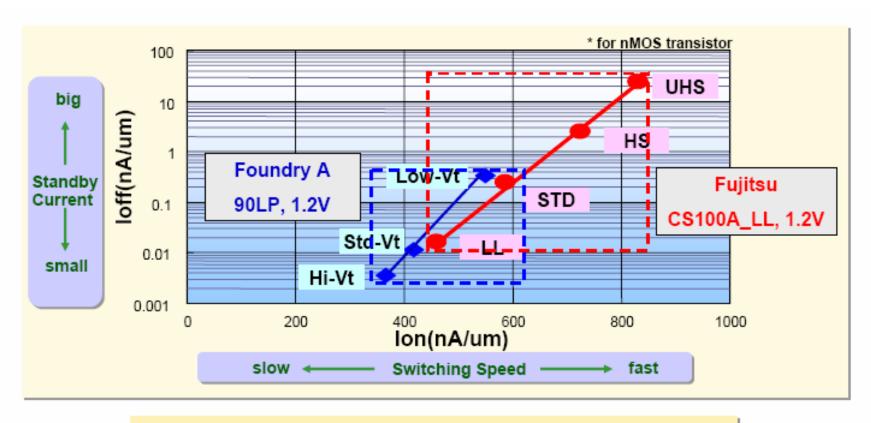
Cell Type Feature	Low Leak	Standard
High Speed	CS101SZ	CS101MZ
Standard	CS101SN	CS101MN
Low Leak	CS101SL	CS101ML

PS. You can combine same or different cell types with different feature cells in one design under same process

- Less NRE Cost, Unit Cost, and TCO Total Solutions Through Our Current ASIC Business Model Offerings
- Fujitsu Proven in-house and Partner Comprehensive IP Portfolio



Fujitsu 90nm Solutions- Benchmark



CS100A_LL process covers a *broad range* of requirement for both high performance and low leakage current.

Note:

CS100A LL: Low-Leak Process

LL: Low –Leak Tr. STD: Standard Tr. HS: High-Speed Tr. UHS: Ultra-High-Speed Tr.





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IP Portfolio- Overview

- ICNexus offers various silicon-proven digital and analog IPs by teaming up with foundries, pure IP vendors, and design house partners.
- Our customers get the advantage of one-stop shopping ensuring successful IP integration at one single vendor.





IP Portfolio- 90nm Partial List

> MPU

- ARM7TDMI-S
- □ ARM926EJ-S
- □ ARM946E-S
- ARM1176JZF-S

Interface Macro

- USB2.0 Device PHY; USB2.0 Host PHY; USB2.0 OTG PHY; USB1.1 PHY
- PCI-Express 2.5G Endpoint PHY
- DRAM Interface- DDR2 Controller Interface 400~533Mbps x32, 400~533Mbps x16, ~800Mbps x16; Mobile DDR 266Mbps
- S-ATA 1.5G/3.0G Host/Target PHY

Special I/O

- SSTL2 for DDR333; SSTL18 for DDR400; SSTL18 for DDR667
- LVDS
- PCI-66

Others

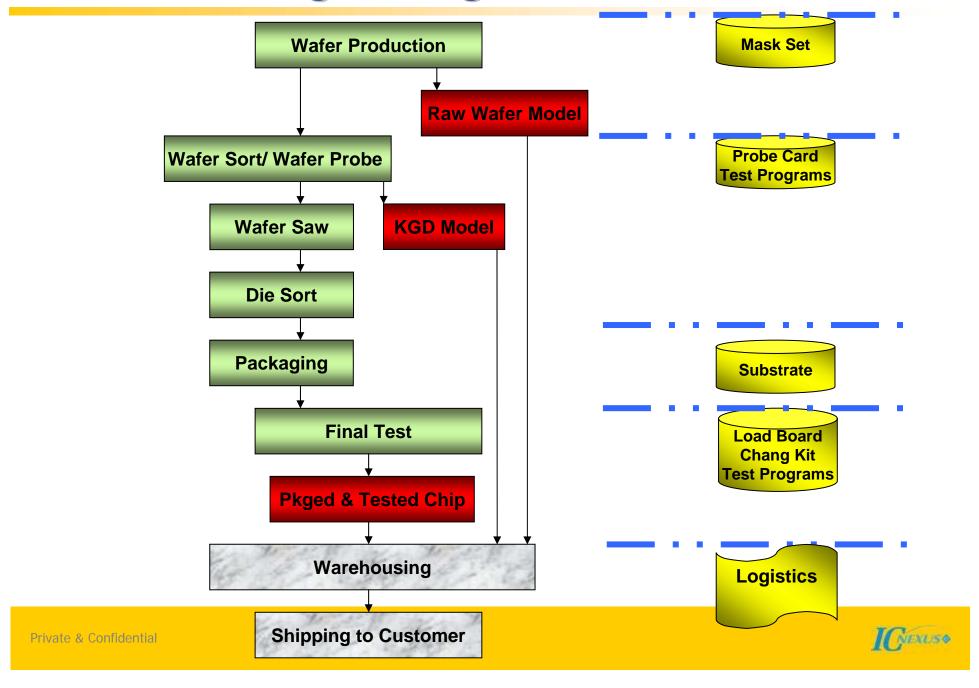
ADC/DAC; PLL; DLL



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Manufacturing To Logistics



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Conclusion

- You One-Stop Shop Partners From RTL to Silicon
- Strategically Allied with Top Wafer Foundry- Ex. Fujitsu on 90nm and Beyond to Provide Mature Production Services
- Broad Range of IP Portfolio Specifically meeting Modern Technology Trend
- Worldwide Service Network to Facilitate Services Globalization
- Proven Records of Success

