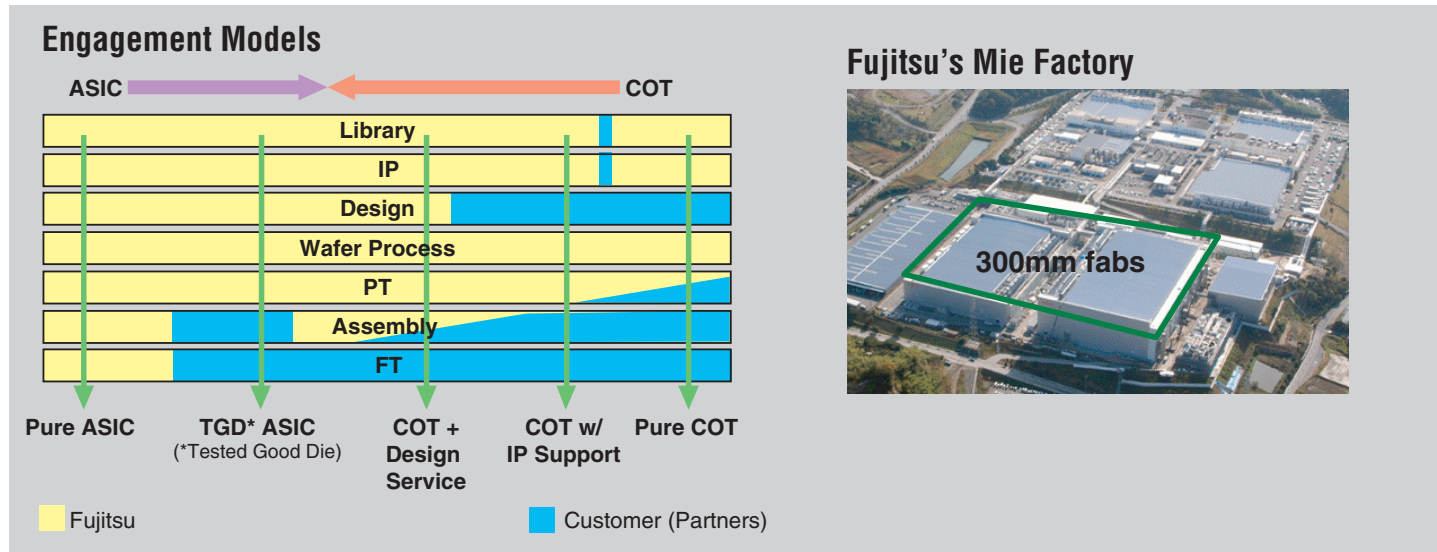


High-Performance Semiconductor Manufacturing Services



▶ Business Model

Fujitsu provides its ASIC and COT customers with highly competitive, world-class technology and services, including:

- **High-Performance Technology**
Fujitsu customers can utilize industry-leading 65nm technology.
- **Flexible Business Models**
Multiple engagement models, which are outlined in the graphic above, provide ultimate flexibility.

- **Stable Capacity**

Fujitsu's Mie, Japan, facility has 300mm fabs with an installed capacity of 25,000 wafers per month. A majority of the capacity is dedicated to external customers. The fabs have provision to further increase capacity to 45,000 wafers per month to meet market demands.

- **Roadmap**

The 65nm CS200HP was preceded by the highly successful CS100HP technology node for 90nm designs. The next-generation 45nm CS300HP is currently in qualification. Customer designs are already underway.

▶ Specifications

Process Highlights

	45nm HP (CS3000HP)	65nm HP (CS2000HP)	90nm HP (CS1000HP)
Gate length	35nm	35nm	40nm
Core VDD	0.9V to 1.0V	1.0V	1.0V
Gate electrode	NiSi / Poly-Si	NiSi / Poly-Si	CoSi / Poly-Si
Source/drain electrode	NiSi	NiSi	CoSi
Interconnects	13-Cu + 1-Al	11-Cu + 1-Al	9-Cu + 1-Al
Inter-level dielectric	Full ULK (K=2.25)	Hybrid porous ULK (K=2.25)	Full VLK (K=2.9)
Drain current enhancement	Advanced stress control	Advanced stress control	40nm gate/shallow trench

High-Performance Semiconductor Manufacturing Services

▶ IP Lineup

Fujitsu augments its high-performance technology by offering a variety of competitive IP macros.

- Standard Cells (9/12 grid)
- SRAMs, Register Files
- 1.6-GHz DDR3
- Multi-standard SerDes (up to 10Gbps/lane)
- PCI-Express 2.0
- PLL, DLL
- SSTL

Fujitsu continues to expand its IP lineup to support customers looking for a winning combination of high-performance process technology and world-class IP.

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