DB HiTek

World Leader In Specialty Foundry

DB HiTek

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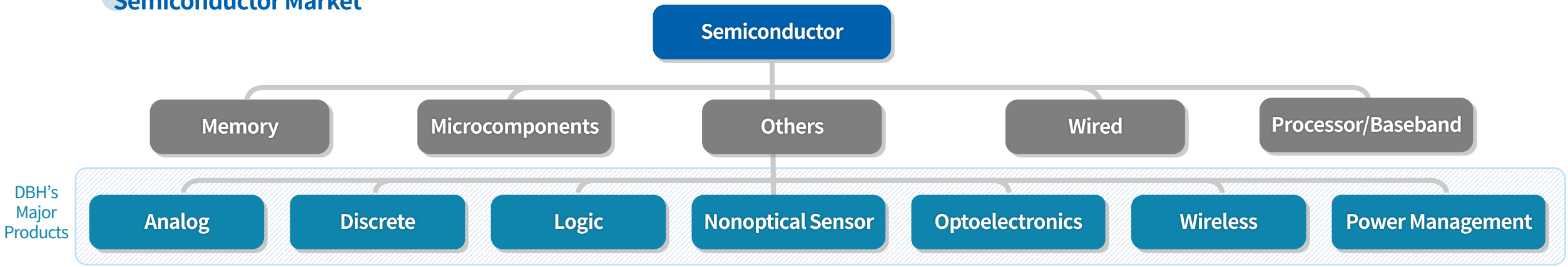
01

Semiconductor Industry Overview

Introduction to Semiconductor Industry

Semiconductor Market



※ (Source) Gartner

System IC

Semiconductor which controls and operates a system and plays a role as a brain of IT devices

(ex. CPU, MCU, Sensor, RF, etc)

Analog IC

Analog Signal

Natural signals which a human can recognize (ex. light, sound, pressure, etc)

Digital Signal

Electric signals which computer can recognize

Semiconductor Business

IDM (Integrated Device Manufacturer)

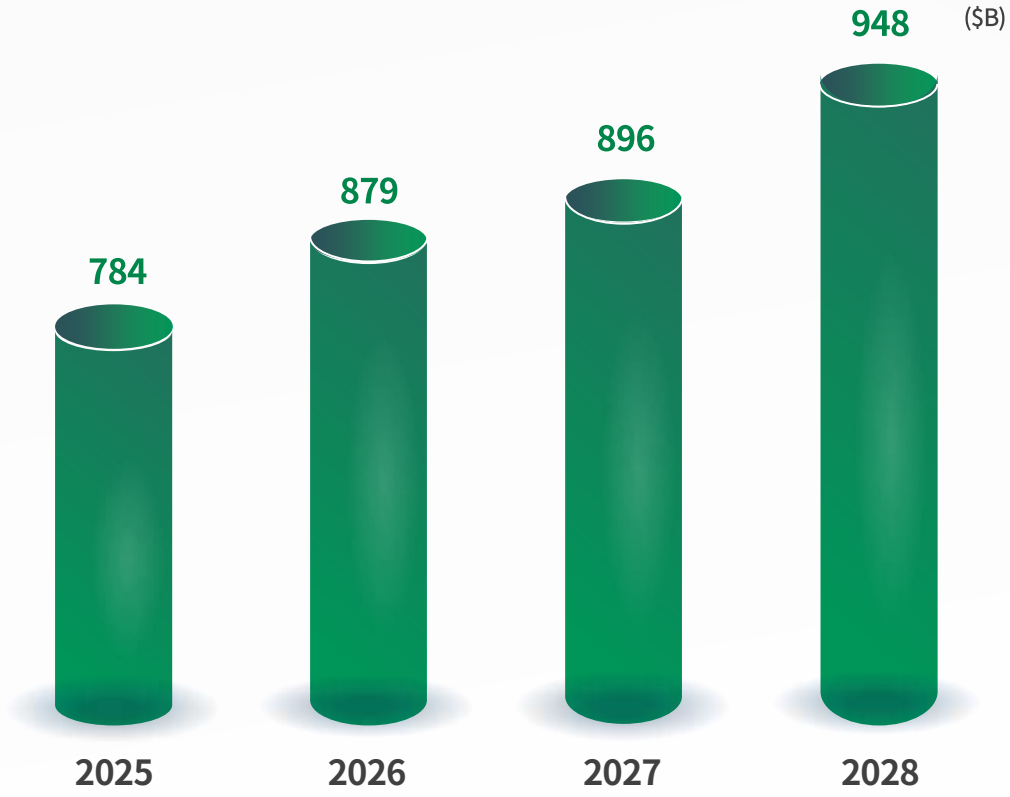
Fabless (Design)

Foundry (Wafer processing)

Assembly(Test/ Package)

	IDM	Fabless	Foundry	Assembly
Functions	Play all from design to manufacture	Semiconductor design only	Fabricate wafers	Final step (Wafers to chip)
Characteristics	Massive investment needed	Small investment	Efficient operation	Focus on cost reduction
Representatives	Intel, TI, Toshiba, Samsung, SK Hynix, Micron	Qualcomm, MediaTek LX Semicon, **DB GlobalChip**	TSMC, UMC, SMIC, GF Tower, VIS, **DB HiTek**	ASE, Amkor, Nepes

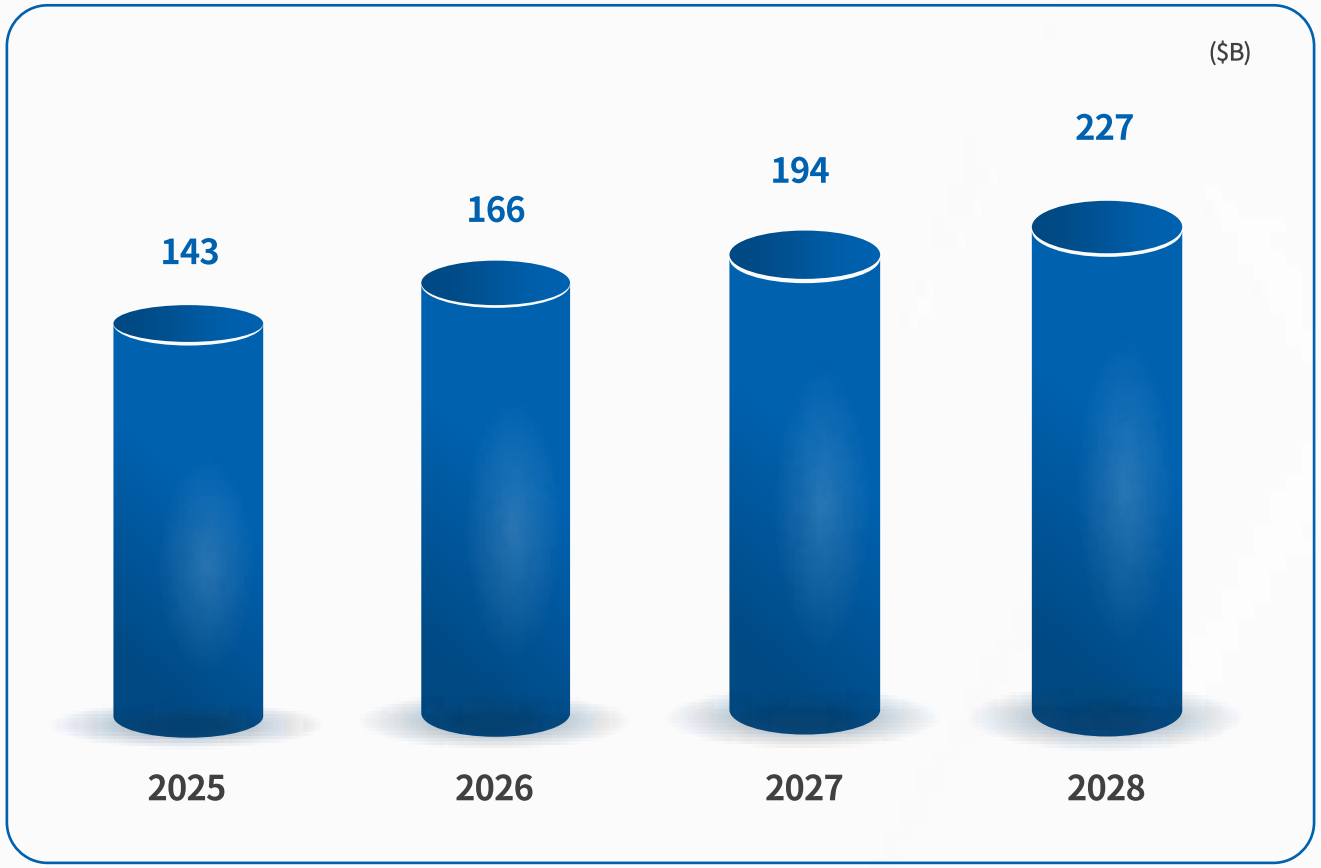
Global Semiconductor Market



The semiconductor market is expected to grow at 7% CAGR by 2028.

※ (Source) Omdia

Foundry Market



The foundry market is expected to grow at 1% C7AGR by 2028.

※ (Source) Omdia

02

DBH Overview

Dream Big, DB Group

Established	1969
Revenue	KRW 23 Trillion (2023)
No. of Employees	12,000
Affiliates	25 companies
Business Areas	3 areas

Insurance

- DB Insurance
- DB Life Insurance

Securities · Banking

- DB Securities
- DB Asset Management
- DB Savings Bank
- DB Capital

Manufacturing

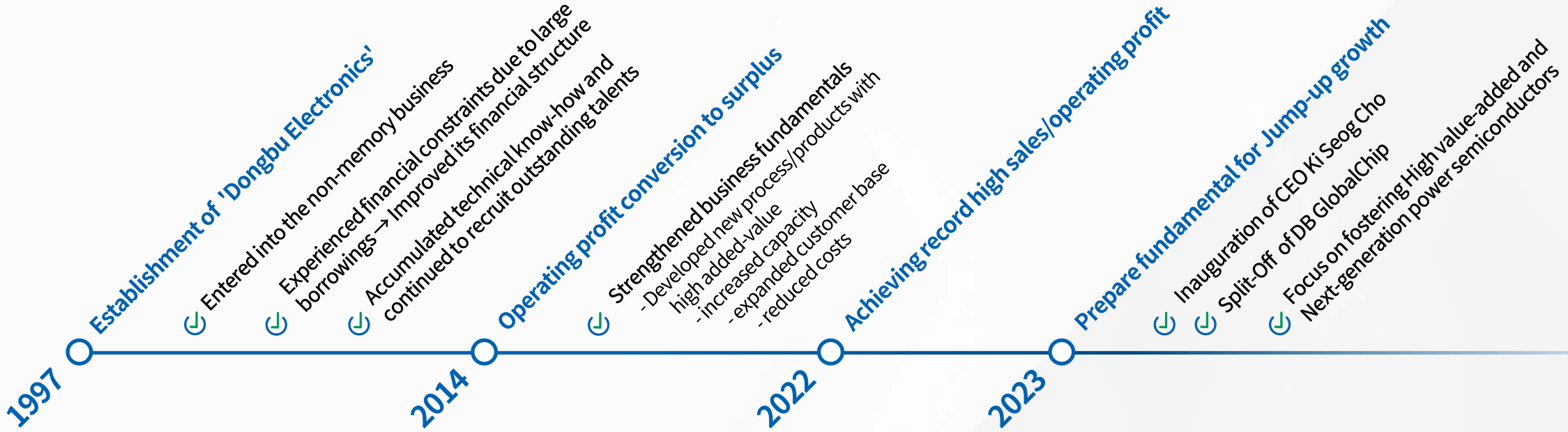
- DB HiTek
- DB GlobalChip
- DB Metal
- DB Communications
- DB Inc.
- DB World

※ (Source) Fair Trade Commission, 2024

Company Overview

"We are committed to the advancement of Korea by dedicating ourselves to non-memory business."

- Jun-ki Kim, The Founder of DB Group -



Employees
2,051

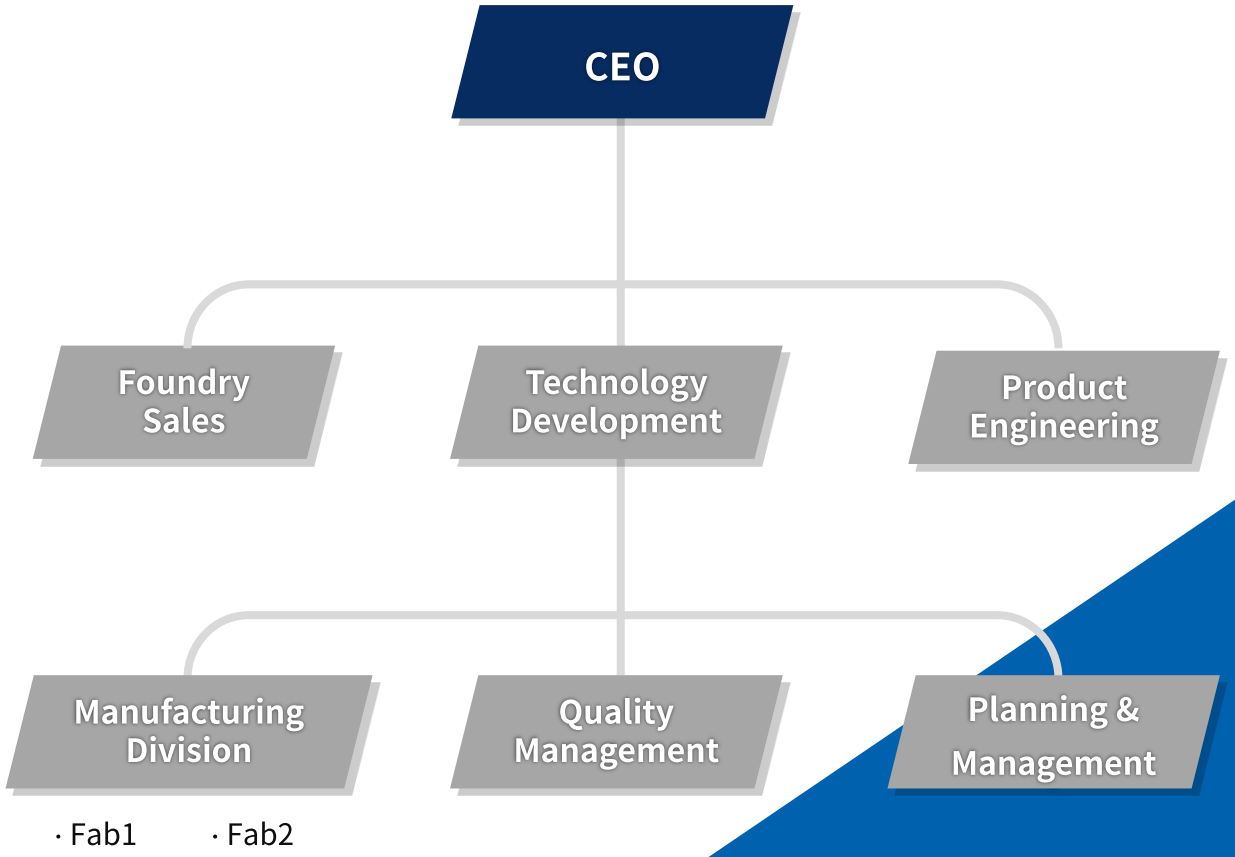
8 inch
154,000 wafers/month

Tech Node
90nm~0.35um

Sales
KRW 1,131B

※ As of 2024

Organization Chart

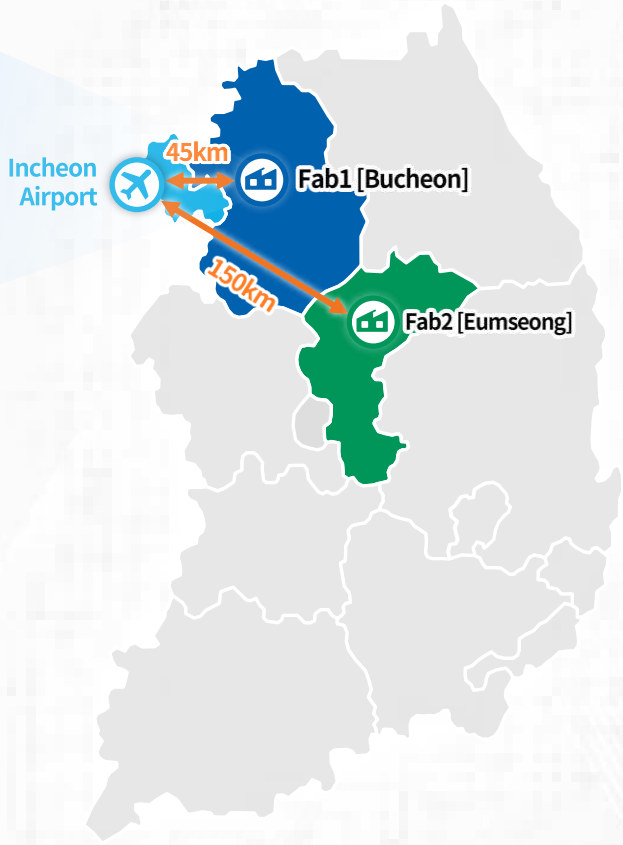


Fabs

Tech Node ~ 0.15um

Process BCDMOS, SJ MOSFET, IGBT, Mixed-Signal, DDI

Location Bucheon, Gyeonggi-do



Tech Node ~ 0.09um

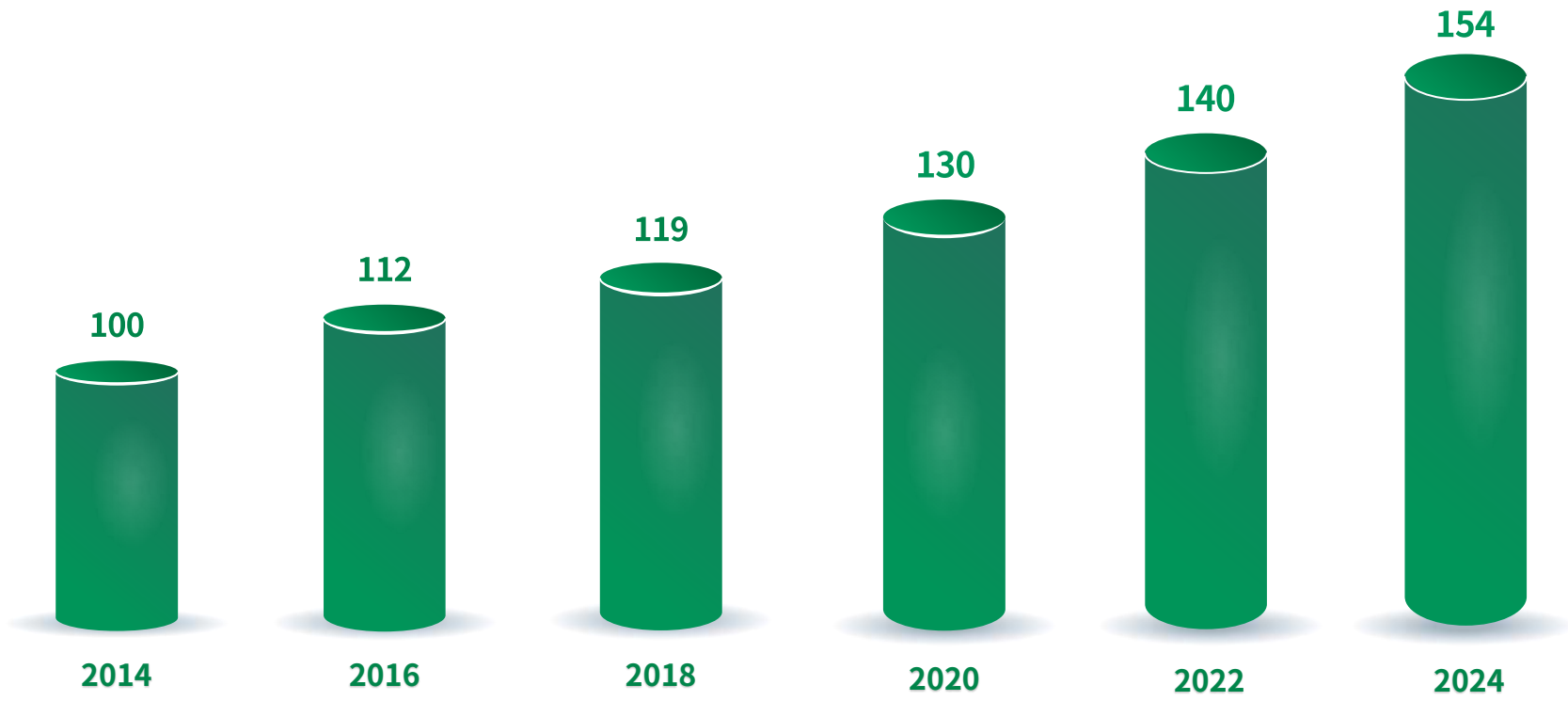
Process CIS, Mixed-Signal, BCDMOS, RF, DDI, SiC, GaN

Location Sangwoo, Eumseong-gun, Chungcheongbuk-do

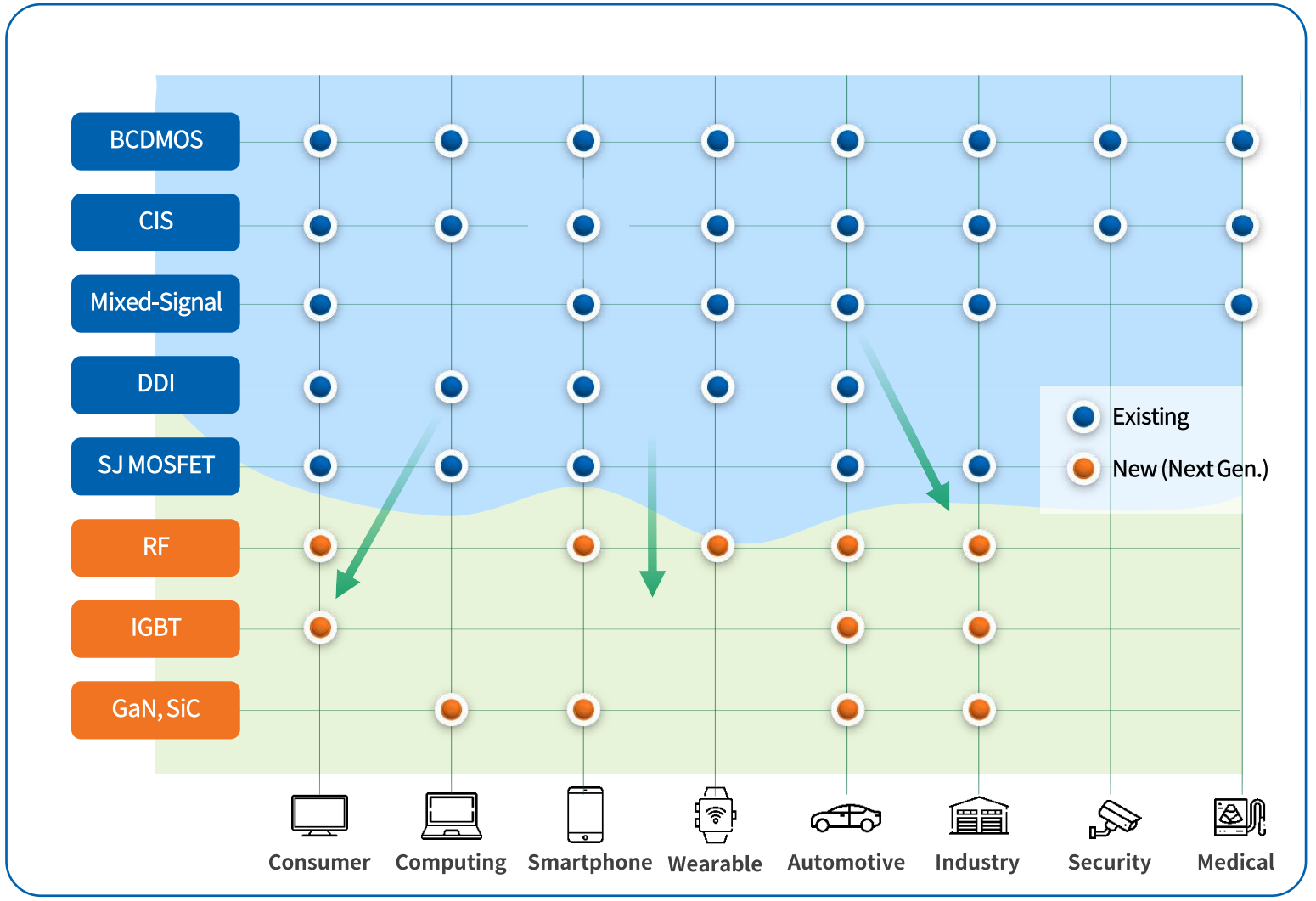
Capacity

Capacity

(K wafers/month)



Business Portfolio



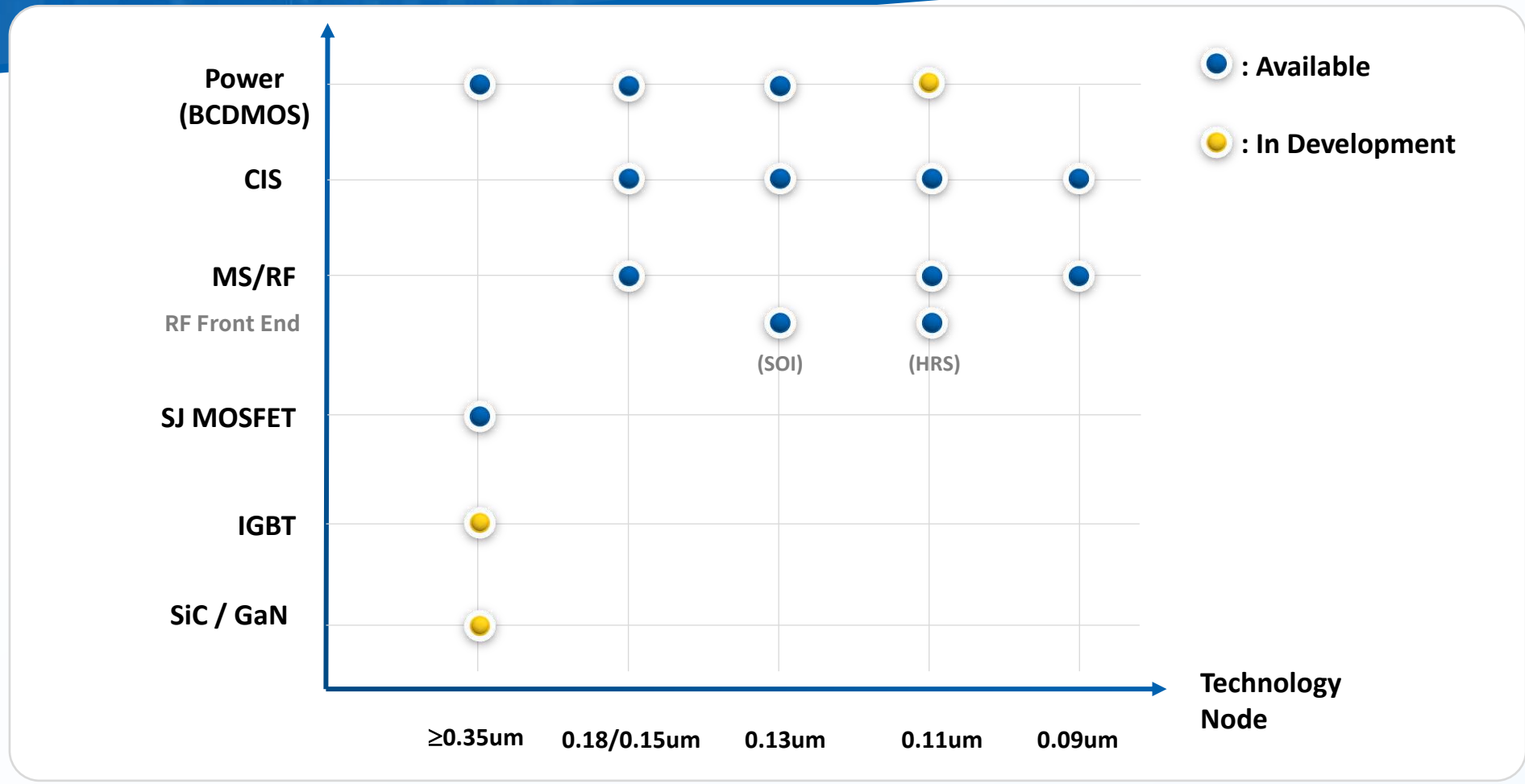
Global Business

Certifications

03

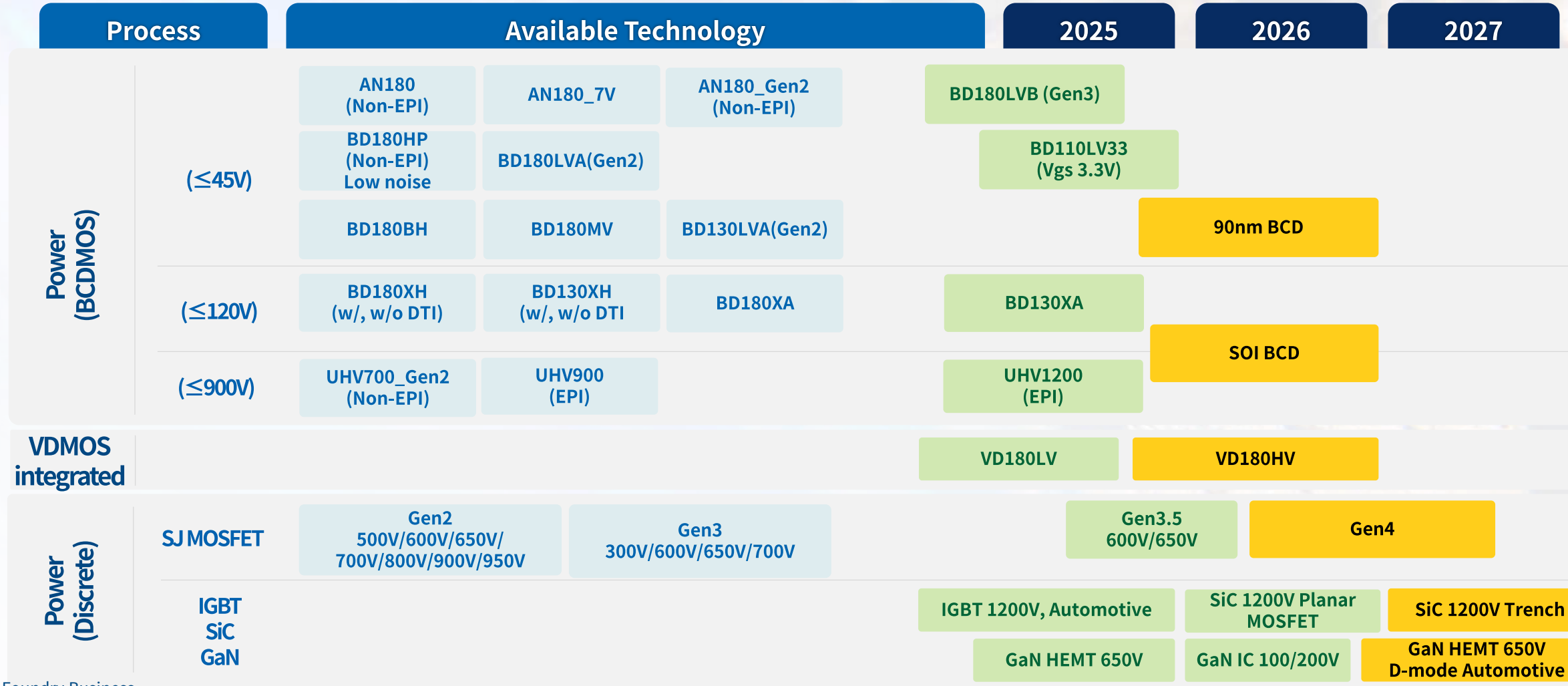
Foundry Business

Platform Technologies



Process Roadmap (Power)

● Development ● Planning



Process Roadmap (CIS)

● Development ● Planning

Process		Available Technology			2025	2026	2027
CIS	0.18um	IS18SH					
	110nm ~90nm (FSI/BSI)	IL11SJ (FSI)	IB11SJ (BSI)	ToF : PPD (Consumer)	IL11SA / IB11SA (1.5V/5V)		
		IL09SA (FSI)	IB09SA (BSI)	SPAD G2.1 PDE 14% @900nm (LiDAR, AR/VR)	SPAD G3.1 PDE 25% @940nm (LiDAR, AR/VR)		
				SPAD G3.0 PDE 15% @940nm (LiDAR, AR/VR)		Ge SWIR	
		Global Shutter (Charge Domain, 6T / 7T)			Voltage Domain G/S		

Process Roadmap (MS/RF)

● Development ● Planning

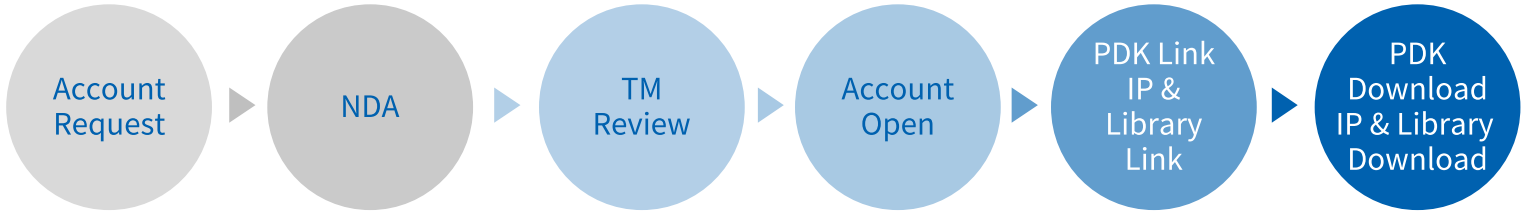
Process		Available Technology			2025	2026	2027
MS/RF	0.11um	TS11SB Low noise	TS11SC Low noise/ULL	RF11SB(Bulk) Low noise			
	0.11um HRS	RH11SA FOM : 134fs Ftpeak : 150GHz					RF GaN
	0.13um SOI	RS13SC FOM : 93fs Ftpeak : 120GHz	RS13SE FOM : 84fs @3.3V Ftpeak : 150GHz		RS13SF 1.2V/2.5V/5V 5V LDMOS		
	90nm	TS09SA Low noise					

*FOM : Ron*Coff

YourFab Service

YourFab LOGIN

YourFab Service Flow



Order To Shipping Service Flow

Stage	PO	Tape Out/ Mask	Wafer Input	Production	WAT	Shipping
YourFab Report	• Order Summary		• Wafer Input Status	• WIP Status • Lot Search	• PCM Summary Report	• Shipping Status

ShuttleChip Service (2025)

● Tape-out start date

FAB	Tech	Application	1Q			2Q			3Q			4Q		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
FAB1 or FAB2	0.18um	Analog /BCD (AN07/AN180/HP180 BD180LV/BD180MV BD180XH/BD180XA)	22	26	26	30	28	25	30	27	24	29	26	
		Analog /BCD (AN180/BD180LV BD180XH/BD180XA)	22		26		28		30		24		26	
FAB1	0.18um	BCD (VD180LV)						04						
	0.15um	Analog/BCD (BEOL0.15um BD18LVA/ AN180 Gen2)	15		12		14		16		10		12	
FAB2	0.13um	Analog /BCD/ SOI (BD130/RS13)		12		02		11		13		15		10
	0.11um	Mixed Signal/ RF HRS	15				14				10			

※ It should be booked one month earlier in YourFab

Thank You

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