

AI for Everyone, Everywhere



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The Future of AI Computing

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Openedges Technology at a Glance

99%

Sales Revenue CAGR(Last 5yrs)



* FY2019~2023

59

Number of Cumulative License Agreements



* As of June 30th

147

Global R&D Engineers



- 88% of total employees (168 members)
- ※ Largest among Korean IP Providers

AI for Everyone, Everywhere



30+

Number of Clients



* Secured global top-tier customers such as Samsung Electronics, SK Hynix, and Micron

20+

IP products available for sale



* Number of IP Products within 4 IP categories

4

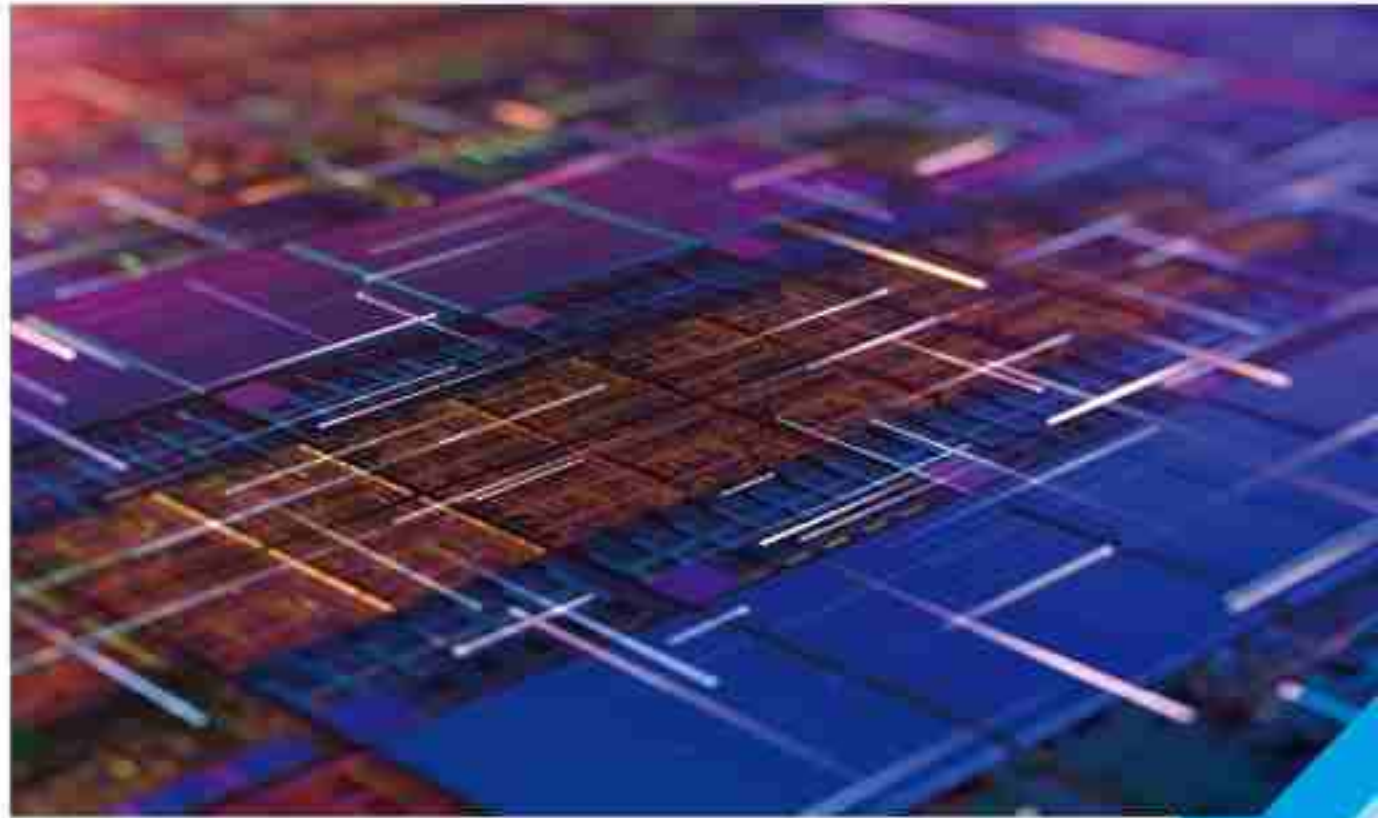
Global R&D Centers



* Korea, US, Canada & Japan

Prologue

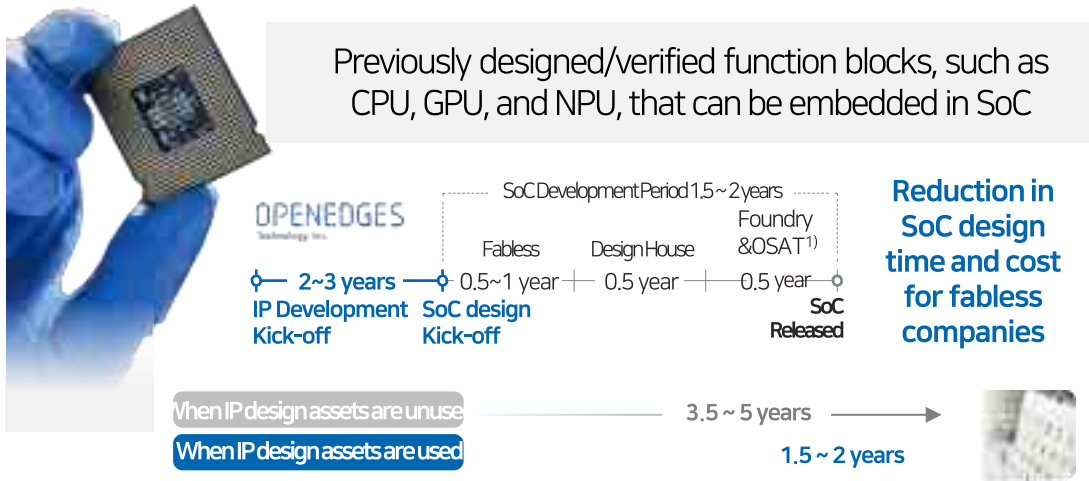
OPENEDGES Technology's Business Areas



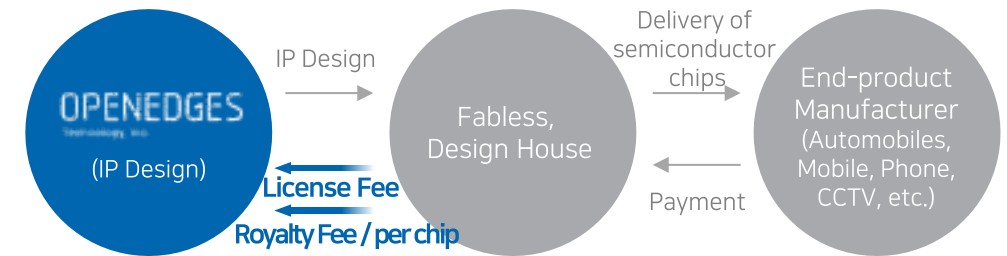
OPENEDGES Technology's Business Areas ①

Semiconductor IP is a ready-made solution requiring high-level technologies that enable faster development of SoC (System on Chip) such as AI semiconductors, reduce costs, and mitigate the risk of failure risks in development that can cost \$100 million

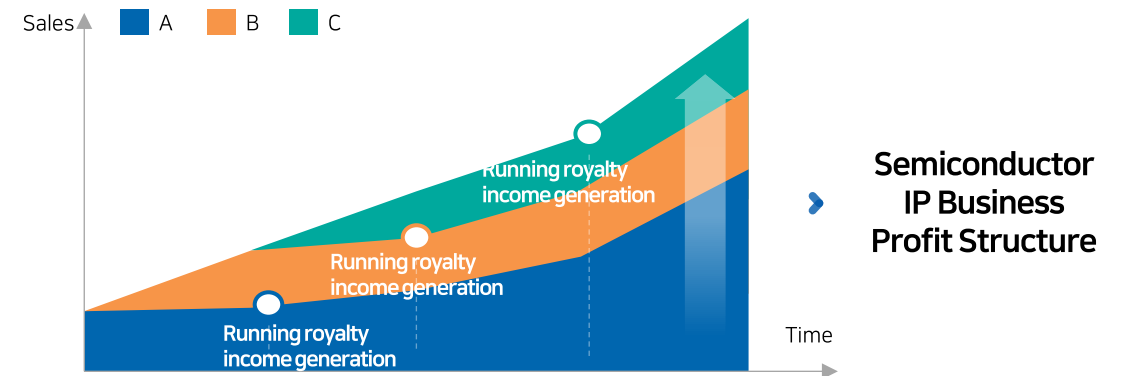
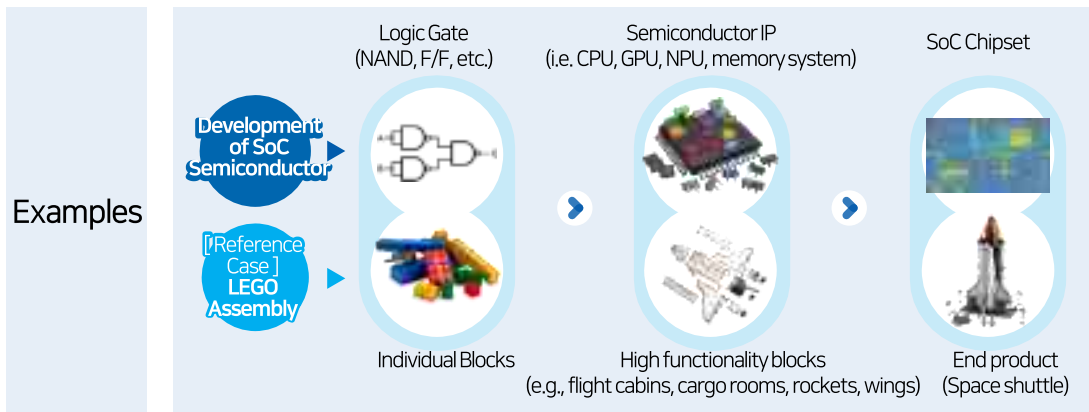
What is Semiconductor IP?



Business Model for IP companies



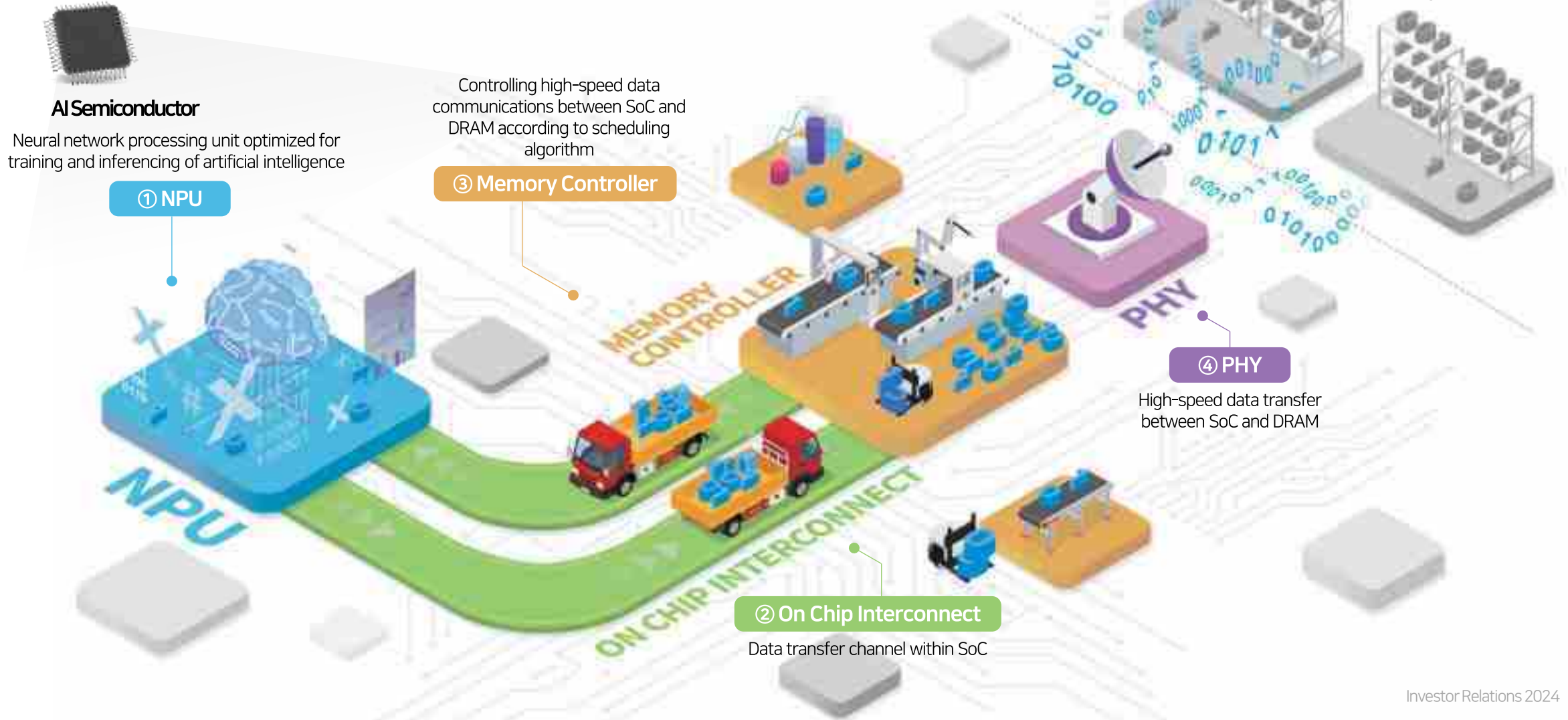
※ The semiconductor IP industry has been oligopolistic, dominated by a few market players due to high technical barriers to entry.



※ Note 1) Outsourced Semiconductor Assembly and Test (Packaging and backend company)

OPENEDGES Technology's Business Areas ②

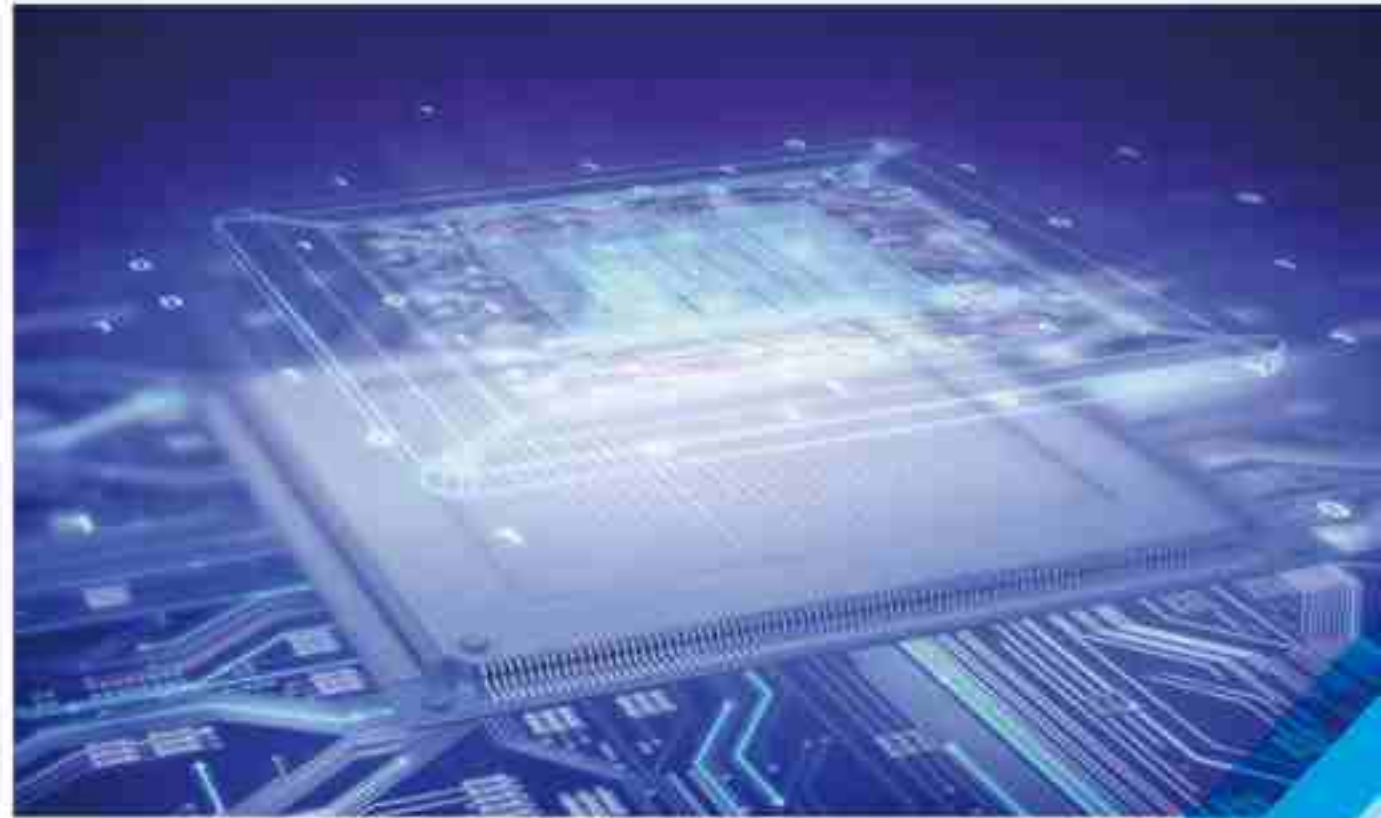
Design and provision of integrated IP solution that serves as a basis for AI semiconductor operation



01

Structural Development of System Semiconductor Market

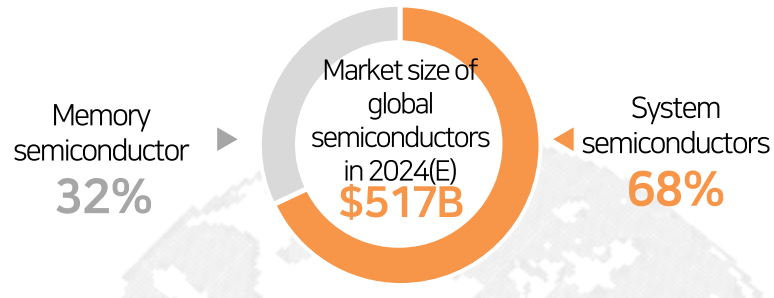
- 01. Growth of AI Semiconductor & IP Market
- 02. Roles of Semiconductor IP Design Company



01 | Growth of Global System Semiconductor Market

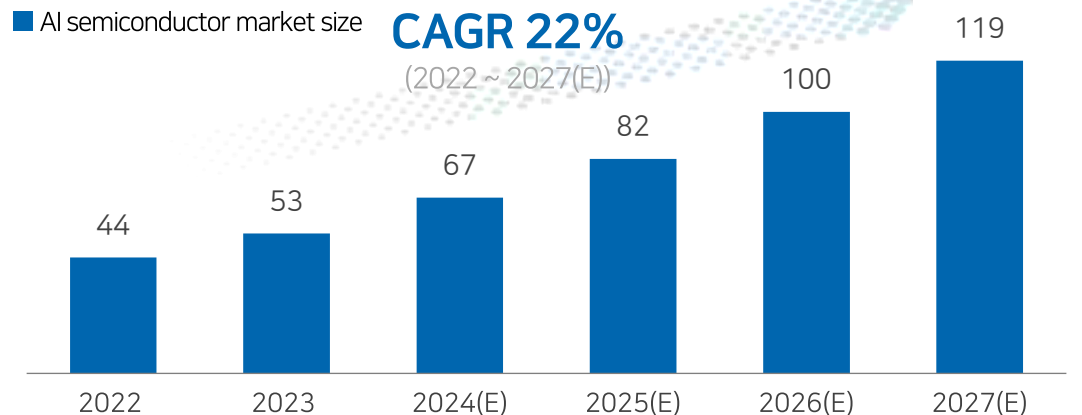
Contrary to memory semiconductors, system semiconductors are continuing their steady growth

Prospects for Global Semiconductor Market 2024



※ Source: WSTS, Nov 2023 (Excluding Optoelectronics, Discrete Semiconductors and sensors)

Prospects of Global AI Semiconductor Market

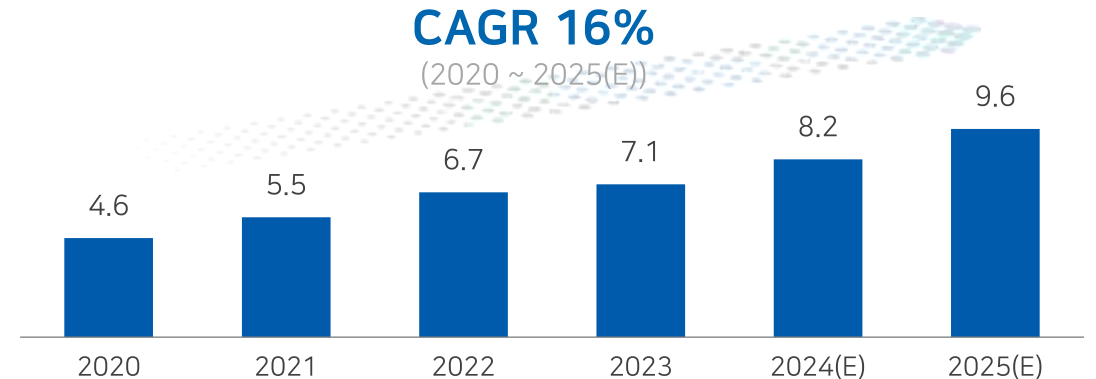


※ Source: AI Semiconductor (Gartner, Aug 2023), 당사 추정

Global Semiconductor IP market forecast

Company	2023 Sales (\$ M)	CAGR ('19 ~ '23)
arm	2,938	10%
SYNOPSYS	1,542	17%
cādence	396	11%
...
OPENEDGES	15	99%
...
Others	...	14%
Total		16%

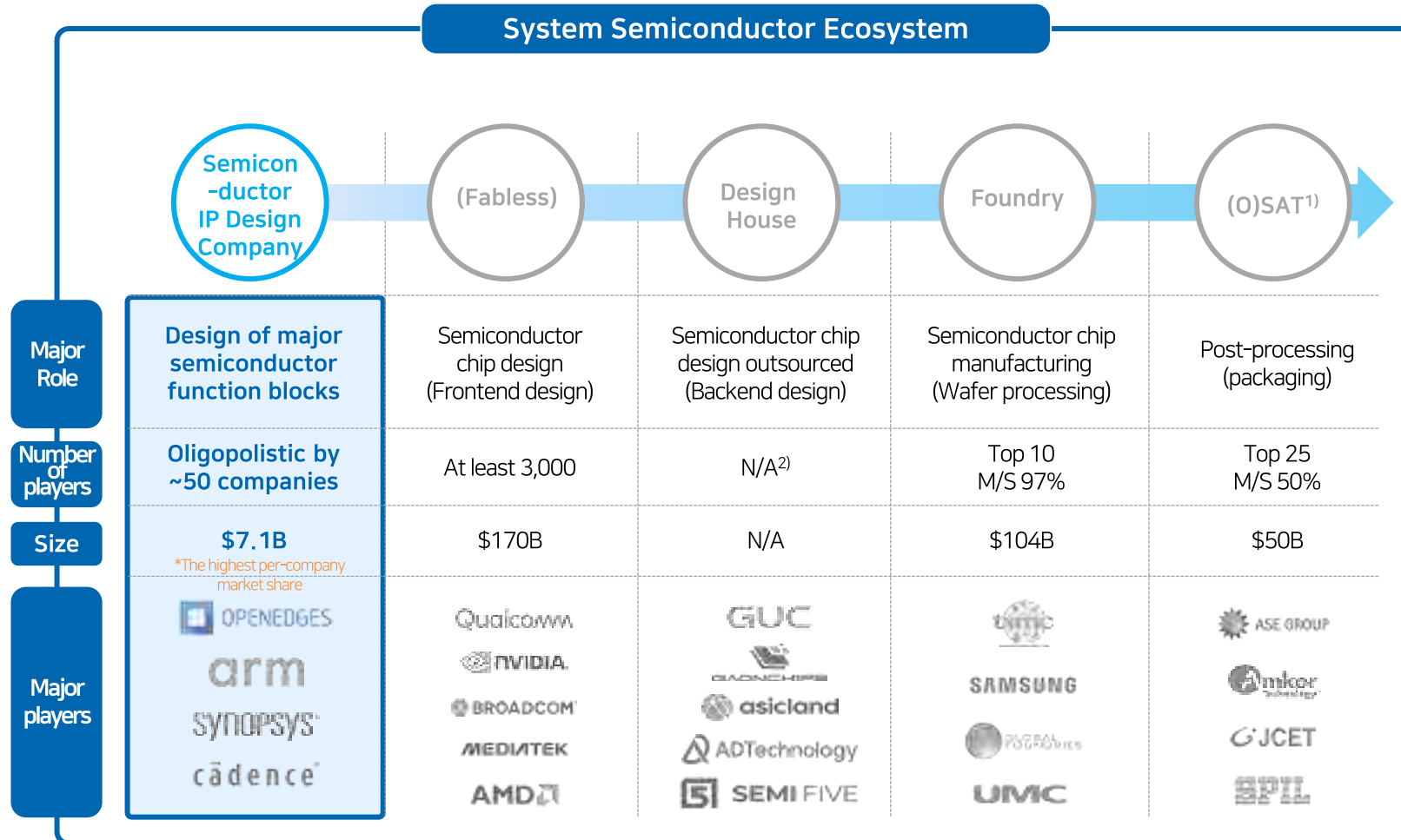
Semiconductor IP market size (Unit: \$ B)



※ Source: Design IP revenues (Ipnest, Apr 2024), Press Clipping

03 | Roles of Semiconductor IP Design Companies

Semiconductor IP companies aim to develop and supply function blocks as needed by Fabless and Design House in a proactive manner



Reasons for IP oligopoly

Higher demand for proven IPs

IP companies with proven IPs are in high demand due to the rising entry barriers

Requires highly proficient technical personnel

Requires R&D investments for at least 3 years

※ Note 1) (Outsourced) Semiconductor Assembly and Test: Semiconductor package assembly and test company that is responsible for performing post-processing after wafer process
 Note 2) Design House market does not have a reliable market size data as it is in its initial formation stage.

02

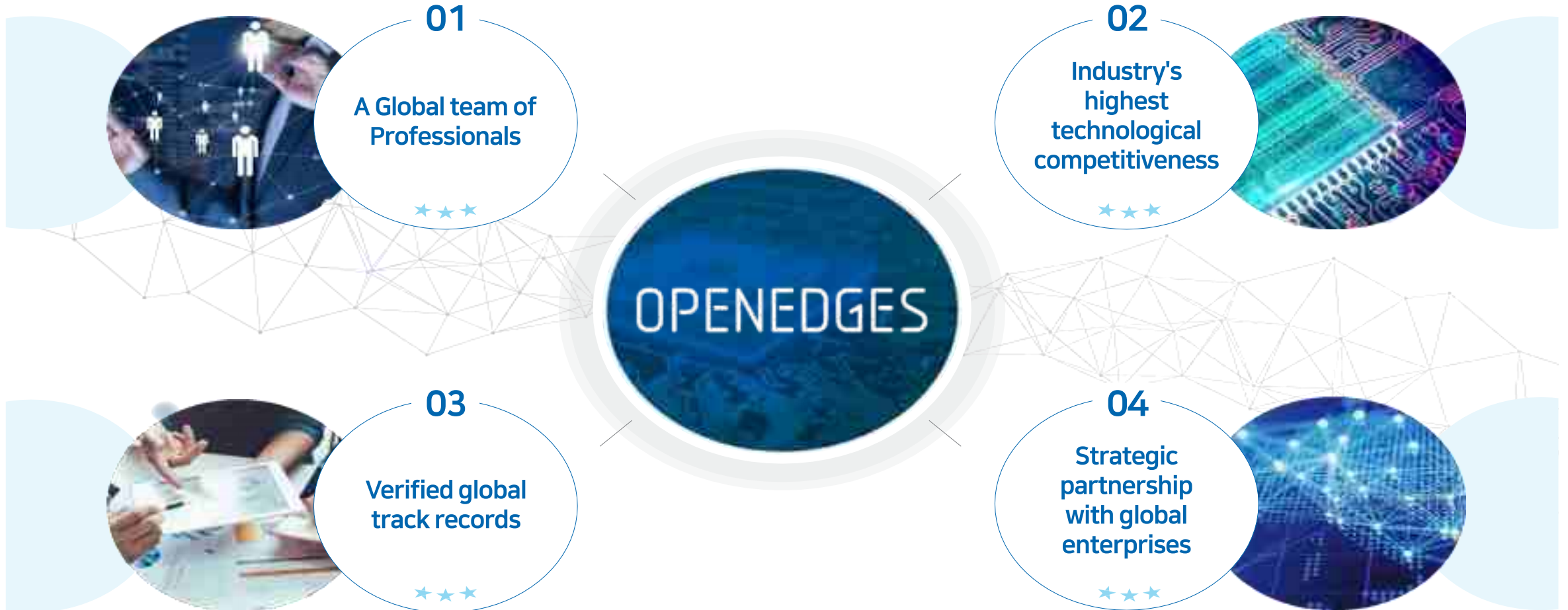
OPENEDGES Technology, as Korea's most renowned AI semiconductor IP design company

- 01. The Overview of OPENEDGES's Core Competitiveness
- 02. A Global Team of Professionals
- 03. Industry's Highest Technological Competitiveness
- 04. Verified Global Track Records
- 05. Business Partnership with Global Enterprises



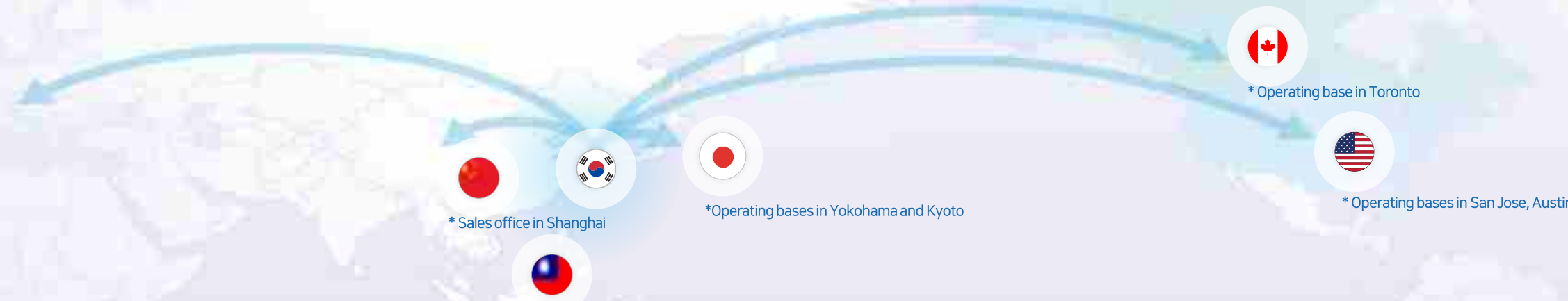
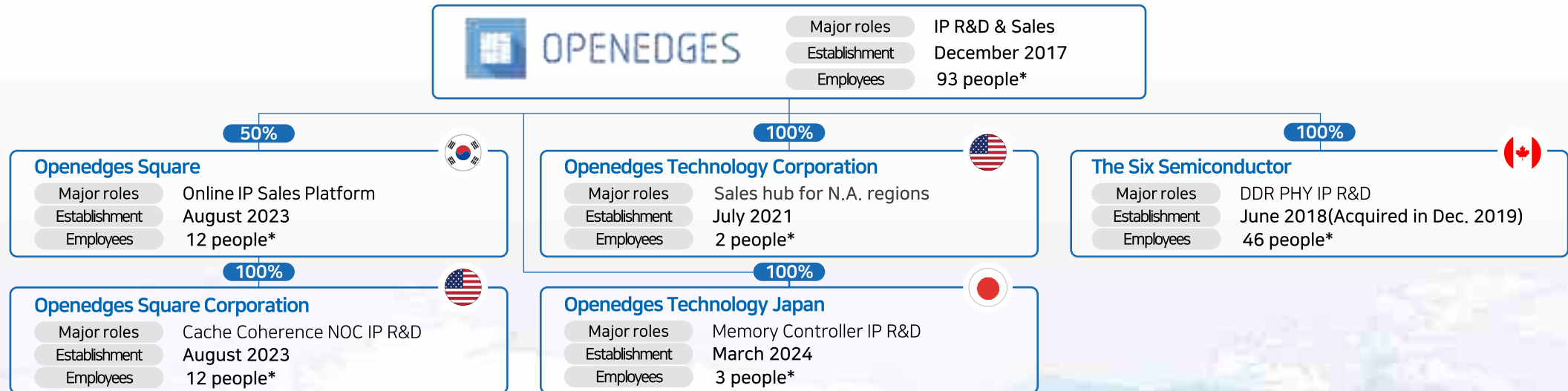
01 | The Overview of OPENEDGES' Core Competitiveness

OPENEDGES holds the key success factors
to become a global leader in the AI semiconductor IP market



02 | A Global Team of Professionals – Global Presence

Expansion of global bases in addition to offices in the U.S., Canada and Japan



02 | A Global Team of Professionals

Leadership of industry-leading experts with over 20 years of experience from Samsung Electronics/SK Hynix, and more.



R&D personnel

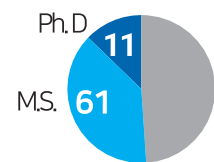
Among the total personnel (168 team members)

88%

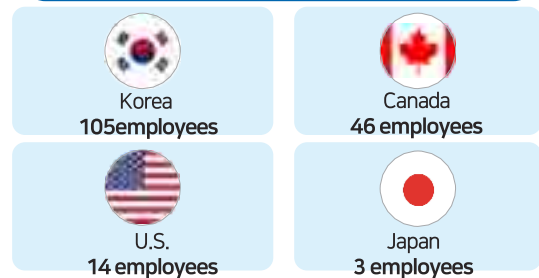


Percentage of Ph.D. and M.S. degree holders (72 members) among the R&D personnel

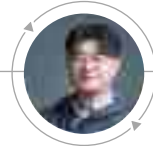
49%



Status of Each Country



* As of June 30th, 2024



Sean Lee
Representative Director / CEO



Ph.D. Candidate in Electrical and Computer Engineering, Seoul National University
'17-Present: Representative Director, OPENEDGES Technology, Inc.
'08~'15: Principal Researcher, Samsung Electronics (Exynos Development)
'07~'08: Samsung Advanced Institute of Technology



Cody Hwang
R&D Center Head / CTO / Co-founder



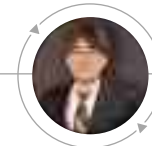
M.S. in Electrical Engineering, Seoul National University
• 2017~ Present: CTO, OPENEDGES Technology, Inc.
• 2010~2015: CTO, CodeHolics
• 2000~2010: Daewoo Electronics, Chips & Media



Jake Choi
NPU Team Head



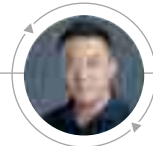
Ph.D. in Electrical and Computer Engineering, Purdue University
'18 ~ Present: NPU Team Head, OPENEDGES Technology, Inc.
'15~'18: Principal Researcher, SK Hynix
'09 ~ '14: Architecture Lab Part Head, Samsung Electronics



Takashi Yamada
OTJ/Regional VP



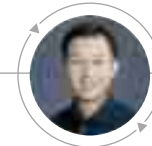
B.A in Electrical Engineering, University of Tokyo Denki
'24~ Present Openedges Technology Japan Regional VP
'15~'24 SOCIONEXT Inc., Principal Engineer
'88~'15 PANASONIC Corporation



Richard Fung
TSS / CEO



M.S. in Electrical and Electronic Engineering, Univ. of Toronto
'18 ~ Present: CEO, The Six Semiconductor
'12 ~'18: Silicon Director, etc., Peraso Technologies
'00 ~'11: PHY Analog Design Manager, AMD



Ricky Lau
TSS / CTO



M.S. in Electrical and Electronic Engineering, Univ. of Toronto
'18~Present: CTO, The Six Semiconductor
'14~'18: PHY Digital Design Engineer, Synopsys
'03~'14: PHY Analog Design Engineer, etc., AMD



Roger Jennings
OSC / VP of Engineering



M.S. in Electrical and Electronic Engineering, Univ. of Memphis
'22 ~ Present: VP of Engineering, OPENEDGES SQUARE
'20 ~ '22: Arteris IP Senior Director of Engineering
'00 ~ '21: Intel, Juniper Networks, AMD etc.



Niranjn Cooray
OSC/Chief Architect

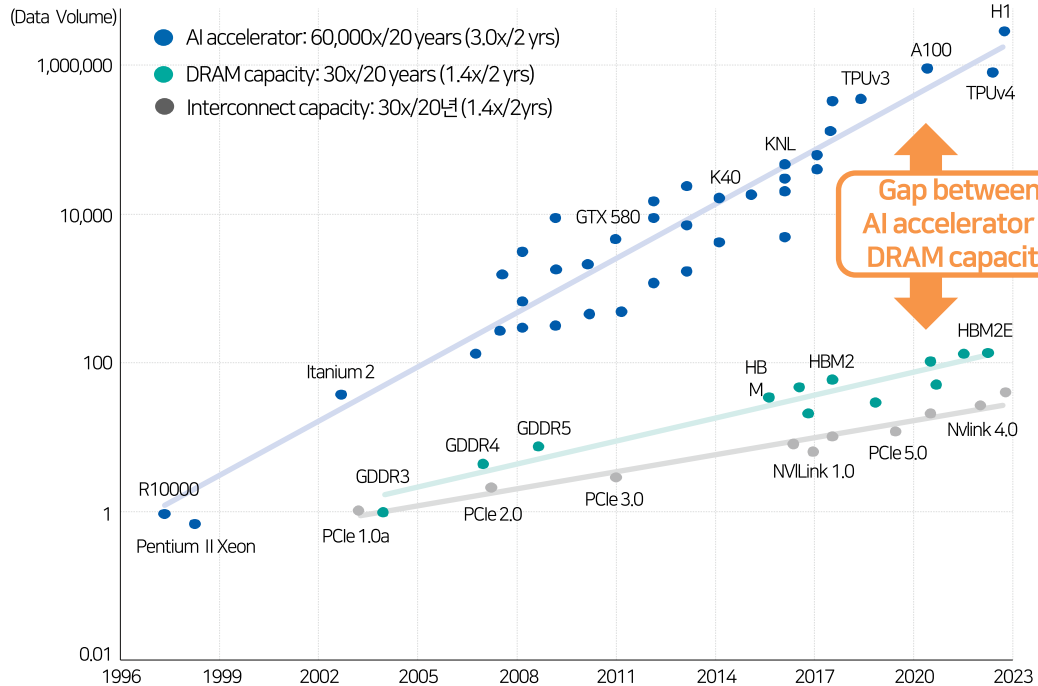


M. S. in Electrical and Computer Engineering, Northeastern University
'24 ~ Present: OPENEDGES SQUARE, Chief Architect
'95 ~ '24: Intel, Principal Engineer

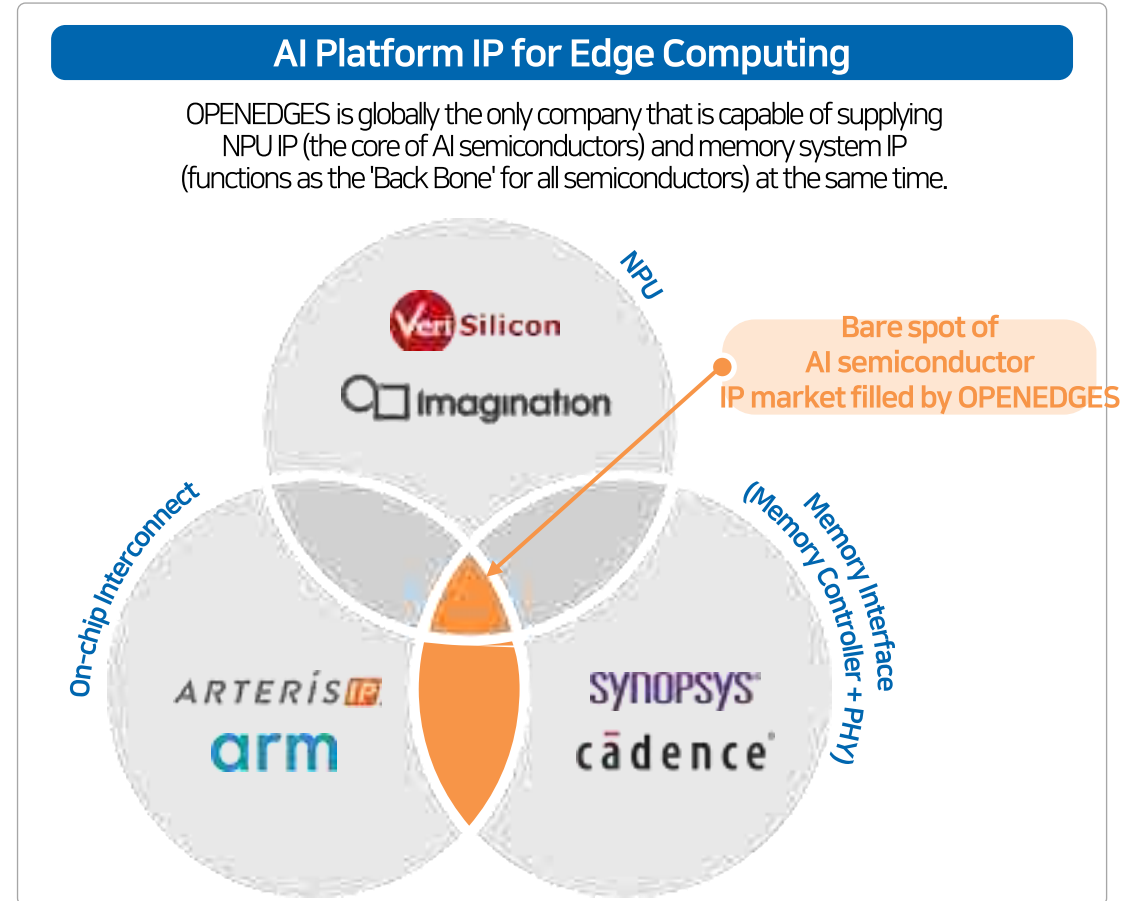
03 | Industry's Highest Technological Competitiveness ①

AI semiconductors are characterized as 'Data Intensive Computing'
 → **Most optimize NPU and memory systems in edge AI with limited resources**
 OPENEDGES is the only global leading AI semiconductor IP platform provider

The gap between the required data processing volume and the capacity provided by DRAMs has increased due to the development of AI accelerator technologies



※ Source: AI And Memory Wall By Riselab



03 | Industry's Highest Technological Competitiveness ②

Leading the market through the development of cutting-edge technology

Division	IP	Description	Development Status	Remark
AI Platform IP Solution for Edge Computing	ENLIGHT™ (Neural Processing Unit)	ENLIGHT™-Light (0.25 ~ 2 TOPS)	Now	Lightweight IoT applications (Keyword recognition, security camera application)
		ENLIGHT™-Classic (2 ~ 16 TOPS)	Now	Intermediate IoT applications (ADAS)
		ENLIGHT™-Pro (16 ~ 250 TOPS)	Now (Released in Apr. '24)	Automotive high-performance applications (Level 3 or higher self-driving vehicle application)
		ENLIGHT™-Hyper (250 ~ 1000 TOPS)	In the future	Automotive high-performance applications (Level 4 or higher self-driving vehicle application)
Total Memory System Solution IP (ORBIT™)	OMC™ (DDR Memory Controller)	DDR4/3, LPDDR4X/4/3	Now	
		LPDDR5X/5/4X/4	Now	Current Mainstream Technology
		HBM3	Now	Server and ultra-high-performance products
		DDR5	Now	Current Mainstream Technology
		GDDR6	Now	High-performance AI product
		GDDR7	In the future	Next-generation High-performance AI product
		LPDDR6	In the process	Next-generation Mainstream Technology
	OPHY™ (DDR PHY)	LPDDR4X/4	Now	TSMC 22nm Nodes
		LPDDR5X/5/4X/4	Now	TSMC 16nm Nodes
		LPDDR5X/5/4X/4	Now	TSMC 12nm Nodes
		GDDR6	Now	TSMC 12nm Nodes
		LPDDR5X/5/4X/4	Now	TSMC 6/7nm Nodes
		HBM3	Now	TSMC 6/7nm Nodes
		DDR5	Near future(~'25)	TSMC 5nm Nodes
		LPDDR6	In the future	TSMC 4nm(or less) Nodes
		LPDDR3, DDR4/3	Now	Samsung 28nm Nodes
		LPDDR4X/4, LPDDR5/4X/4	Now	Samsung 14nm Nodes
		LPDDR5/4X/4	Now	Samsung 8nm Nodes
		LPDDR5X/5/4X/4	Now	Samsung 5nm Nodes
		LPDDR6	Near future(~'25)	Samsung 4nm Nodes
	GDDR7	In the future	-	
	OIC™ (On-Chip-Interconnect)	OIC™	Now	Non- Cache-Coherent NoC
OIC™-AI		In the process	Cache-Coherent NoC	

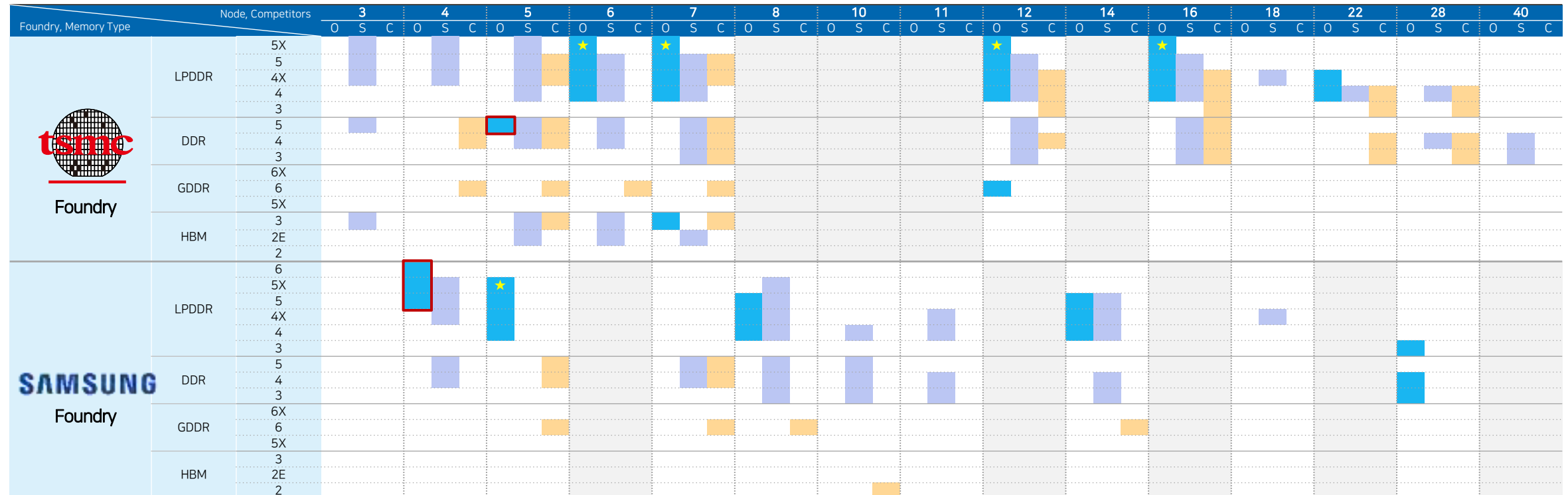
03 | Industry's Highest Technological Competitiveness ③

Concentrate on areas that major global competitors cannot cover & expand M/S

DDR PHY IP Competition status

□ IP to be developed, ★: Sole Provider

Openedges Synopsys Cadence



M/S expansion strategy

- ✓ Synopsys and Cadence are focusing on TSMC 5nm and below leading-edge processes
- ✓ OE is the only one provides LPDDR5X/5 PHY IP for various nodes
- ✓ OE is expecting customer pool through the development of PHY IP for SF 4nm & TSMC 5nm processes
- ✓ OE's PHY IP requires area less than 50% compared to competitors by providing through the test chips

03 | Industry's Highest Technological Competitiveness ④

Maximize first-mover advantage of AI semiconductor integrated IP solutions

예상 출시 일정		2021		2022		2023		2024		2025	
		1H	2H	1H	2H	1H	2H	1H	2H	1H	2H
ENLIGHT™ Neural Processing Unit		NPU v1.0		NPU v2.0				NPU v3.0 Autonomous Driving		NPU4.0 Autonomous Driving	
		[Performance] 0.25~2 TOPS [TargetProduct] Light-weight IoT application products (keyword recognition, security camera application)		[Performance] 2~16 TOPS [TargetProduct] Medium or higher level of IoT application products (autonomous driving auxiliary application)		[Performance] 16~250 TOPS [TargetProduct] High-performance application products for vehicles (Application of autonomous driving vehicles with Level 3 or higher)		[Performance] 250~1,000 TOPS [TargetProduct] High-performance application products for vehicles (Multi-Die version application of autonomous driving vehicles with Level 4 or higher)			
		Security Camera		Driver Support System		Fully Autonomous Driving					
OIC™ On-Chip Interconnect	Non-Cache Coherent NOC	OIC v. 1.X						OIC v. 2.0			
	Cache Coherent NOC									OIC-AI	
OMC™ Memory Controller		GDDR6	LP5X/5 /4X/4		HBM3	DDR5				LP6	
OPHY™ DDR PHY	SAMSUNG		LP4/4X/5 (14nm)				LP5X/5/4X (5nm)			LP6 (4nm)	
	tsmc			LP4/4X/5 GDDR6 (12nm)	LP4/4X/5 (22nm)	HBM3 LP4X/5/5X (6/7nm)		LP5X/5/4X (12/16nm)		DDR5 (5nm)	
OUC Controller Die to Die (Chiplet Controller)								UCle v1.1 Controller (AXI streaming)			UCle v1.1 Controller (Full spec.)
OPHY™ PHY Die to Die (Chiplet)	SAMSUNG										OPHY-D2D (5/8nm)
	tsmc										OPHY-D2D (6nm)

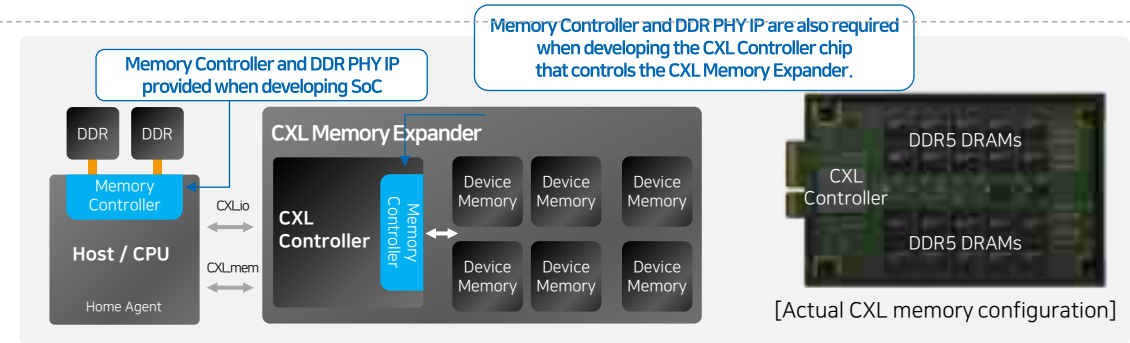
🌀 R&D started in 2023 🟡 R&D to be launched from 2024

03 | Industry's Highest Technological Competitiveness ⑤

Leading the next generation of high value-added semiconductor technology expected to grow rapidly

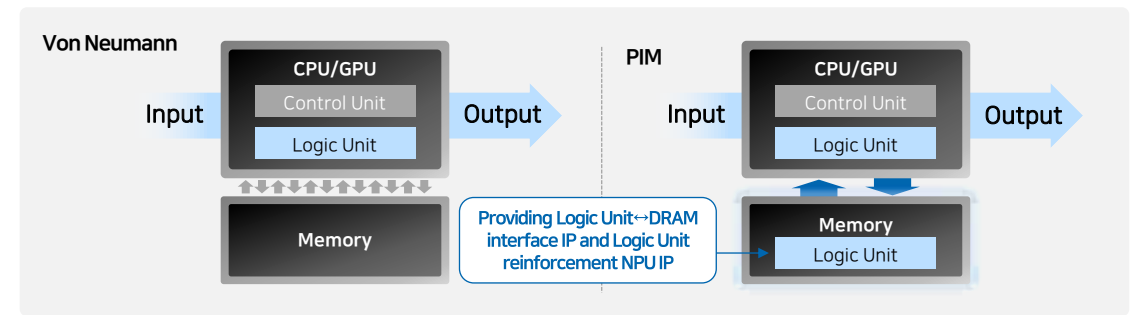
CXL
(Compute Express Link)

- CXL interface can flexibly expand memory without limitations on memory standard capacity and performance dependent on existing Host/CPU
→ Effectively supports **data intensive high-performance calculations such as AI chips**
- supplies **IP for the design of the CXL Controller chip**, the core of the CXL Memory Expander.



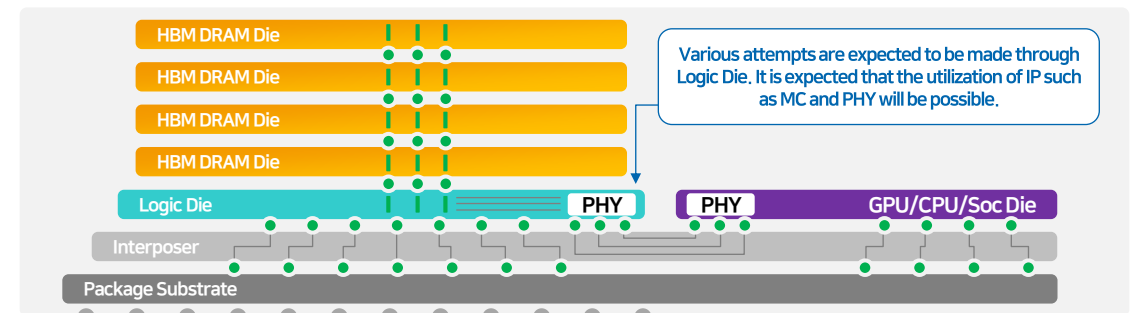
PIM
(Process-in-Memory)

- PIM off-loads some of the computational functions handled by the Host/CPU (von Neumann structure) and processes them
→ **Speed ↑ , Power ↓ by simultaneous calculation & storage**
※ *Samsung is using HBM and SK Hynix is using GDDR6 for developing PIM*
- Supplies **Memory System IP**, which is responsible for the data interface between Logic Unit and DRAM in PIM semiconductors, and **NPU IP** required to improve the performance of Logic Unit.



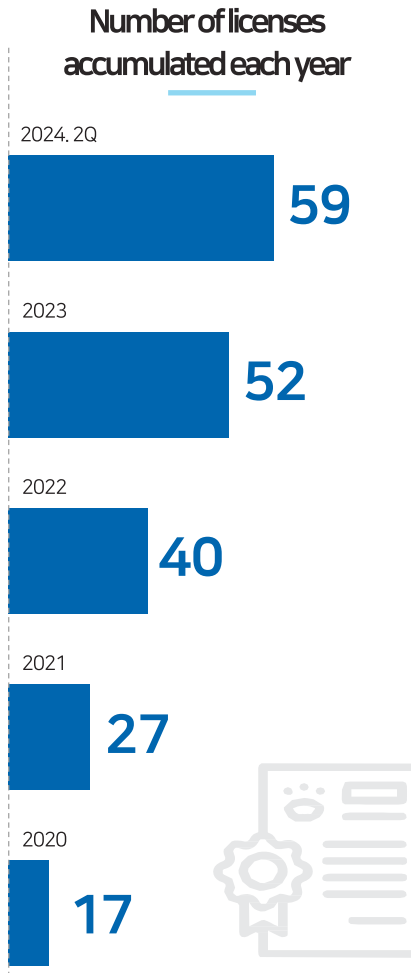
HBM4

- Starting with HBM4, the Base Die is expected to be mounted as a Logic Die and utilize various functions
→ It is being attempted starting with HBM3E, but full-scale application is expected to start with **HBM4**.
- Currently, our main IPs such as **Memory Controller and PHY** are likely to be utilized.
→ Openedges already has HBM Memory Controller and PHY, and can customize those if requested by customers.



04 | Verified Global Track Records

Expanding global track record as value recognized as the essential solution in various industries



Intelligent security camera

VISIONEXT nextchip
eyenix ANIP

Server/storage devices

SAMSUNG SK hynix
글로벌회사 GLENFLY
asicland novachips

**Autonomous driving/
In-vehicle face recognition**

AISIN Telechips
nextchip GANONCHIPS

IoT / Mobile

JLQ TECHNOLOGY MONTAGE Technology
SENSICOMM GCT

AI

Micron Ven Silicon
SEMI FIVE DEEPX

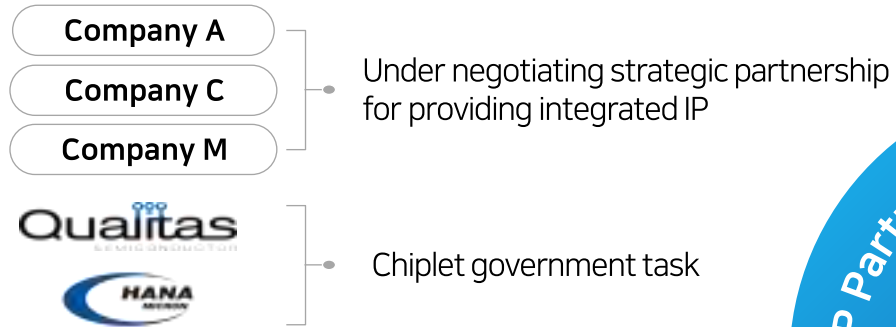
Others (drones, PC, etc.)

LX Semicon EYE
asicland

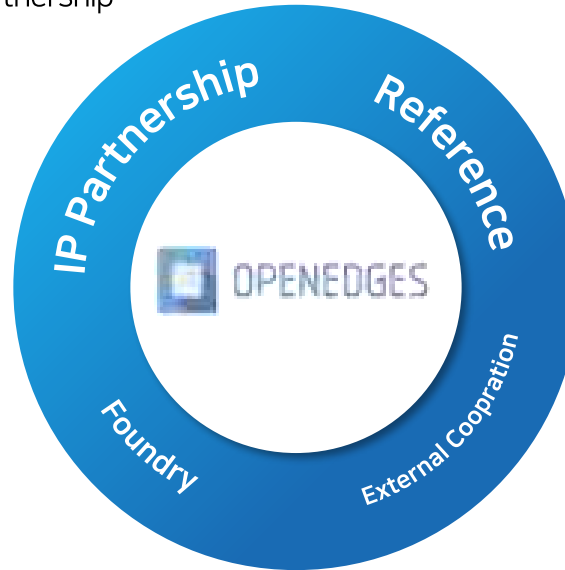
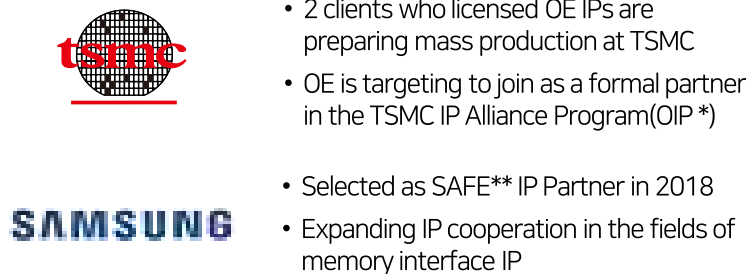
05 | Business Partnership with Global Enterprises

Securing stable IP demands + Proactive response to advanced technologies and market trends

Strengthening partnerships with IP companies



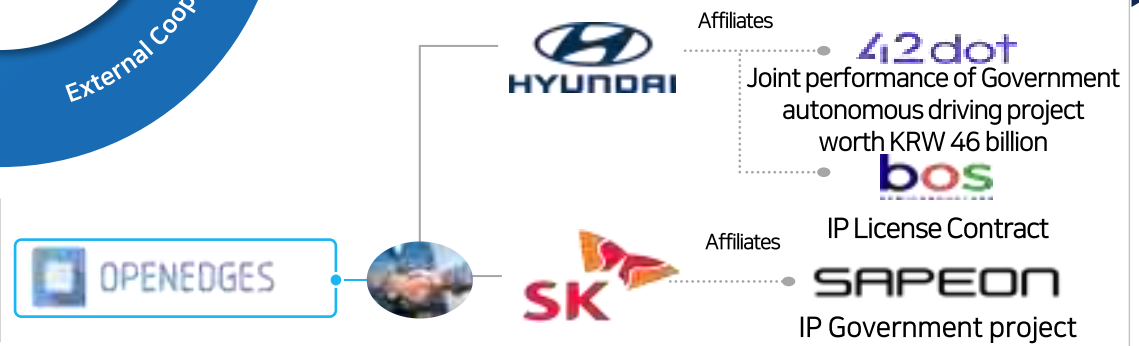
Strengthening partnerships with Foundries



Securing references with top-tier customers



Strengthening external cooperation



* OIP (Open Innovation Platform)

** SAFE (Samsung Advanced Foundry Ecosystem)

03

'24 2Q Business Performance

- 01. Sales Revenue
- 02. Operating Profit(Loss)
- 03. Contract Status

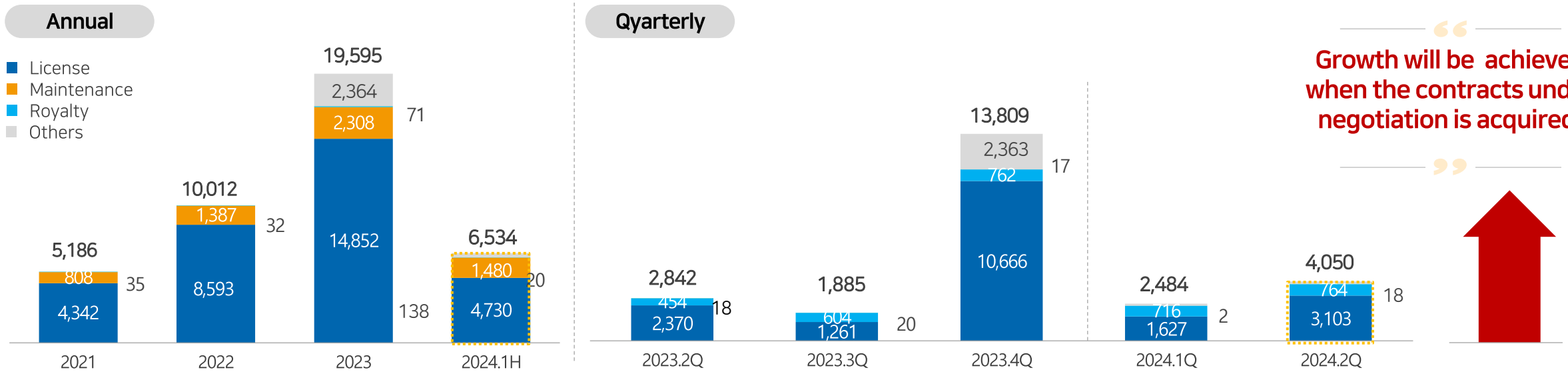


01 | Sales Revenue

'24 2Q sales recorded KRW 4 billion due to new contracts, etc., increase compared to the 1Q24(63.1%, QoQ), 2Q23(42.5%, YoY)

Sales status

(Unit: KRW 1 million)



Growth will be achieved when the contracts under negotiation is acquired.



Sales Analysis

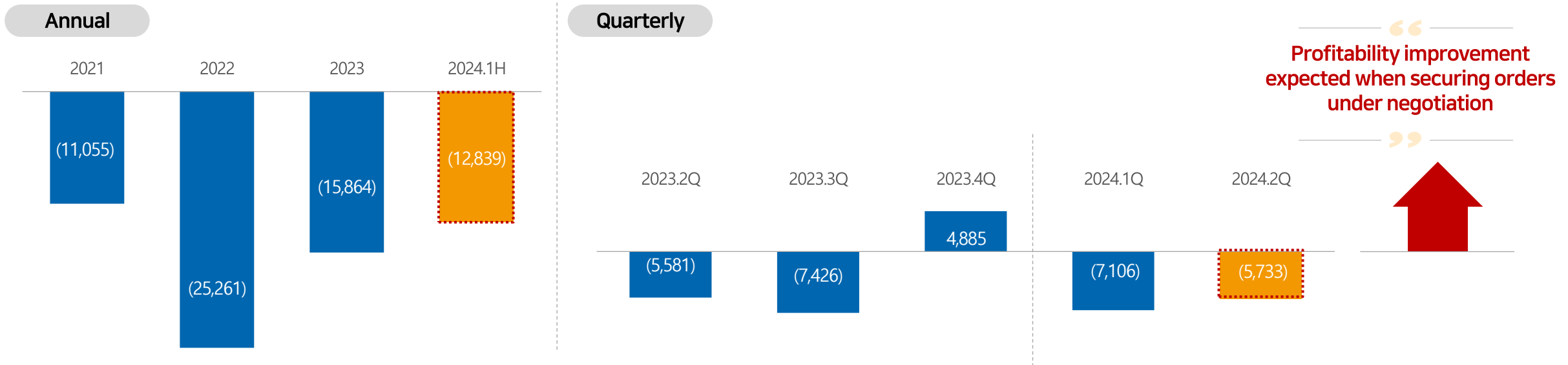
- License** Revenue and ASP Increase due to new contracts and compared to 1Q24(QoQ) and 2Q23(YoY)
- Maintenance** Sales are being generated from a total 32 projects
- Royalty** Increased compared to 1Q24 and is expected to continue to rise steadily.
- Others** Sales for operational and technical support services for Openedges Square

02 | Operating Profit(Loss)

**Recorded a loss of 5.7 billion won, improved the deficit compared to 1Q24
R&D expenses were managed at 8~9 billion won without much change**

Operating Profit(Loss)

(Unit: KRW 1 million)



Operating Profit Analysis

- ✓ Sales increase reduces deficit compared to 1Q24, & deficit is expected to continue to decrease due to new contracts
- ✓ Most of the R&D expenses are for developing new IP, are being managed stably at around KRW 8 to 9 billion per quarter without burdening large one-off costs.
- ✓ Currently, discussions are underway to acquire multiple licenses, and sales growth and profitability improvement are expected to continue.

03 | Contract Status

Contract value Increase QoQ due to the high-performance IP contracts. It will continue to grow due to closing of contracts under negotiation in 2H24.

Contract Status

(Unit: USD 1 million)

□ '24.2Q: 4 new license contracts, worth \$5.3M

- The average price per contract is \$1.3M,
- Winning a high-performance/high-price IP contracts

□ '24.1H: 7 cumulative license contracts, worth \$7.4M

- Cumulative contract value increase 68% compared to 1H23(\$4.4M)
- ASP per contract was \$1.1M, increased from \$0.7M in 1H23.

Contract status

(Unit: case/\$M)	'24.2Q (3M)	'24.1H (6M)	'23.1H (6M)	FY2023	FY2022
Numbers	4	7	6	12	13
Sum of Contract value	\$5.3M	\$7.4M	\$4.4M	\$15.5M	\$7.5M
Average price per Contract	\$1.3M	\$1.1M	\$0.7M	\$1.3M	\$0.6M

Performance Analysis and outlook

'24 2Q Results

□ Signing high-performance/high-price IP contract

- Winning high-performance SoC projects considering Samsung 5nm, etc.

□ Delay in completion of customization design project

- Negotiation on customized IPs that support the latest DRAMs such as HBM3 and DDR5 took longer than expected

Outlook for the second half of 2024

□ Expect high growth in normal license sales and improve profitability

- Securing large orders from Tier-1 customers in 2H of 2024
- Improving sales and profitability with high-performance IP-centered IP order contracts

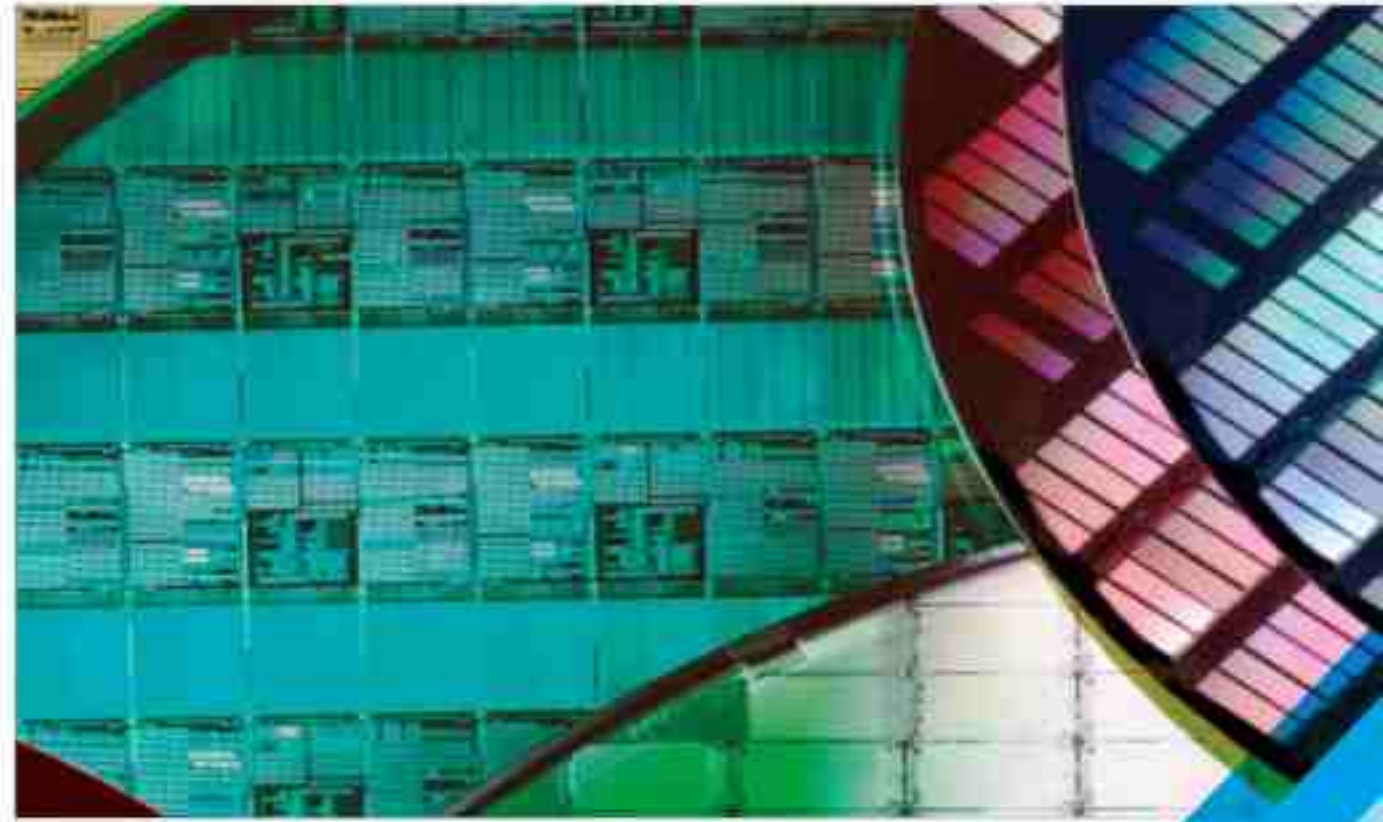
□ Expand due to demand for next-generation and customization

- In addition to CXL, expanding collaboration to reduce the performance gap between AI semiconductors and DRAM, such as PIM and Chiplet
- In addition to normal licenses, we plan to respond quickly to customization IP licenses with global top-tier companies

04

Growth Strategy

- 01. Growth Plan
- 02. Strengthen existing IP competitiveness
- 03. Expand detailed IP portfolio
- 04. Why Expanded IP Portfolio?
- 05. How to Succeed?
- 06. Competitor IP Product Portfolio Status

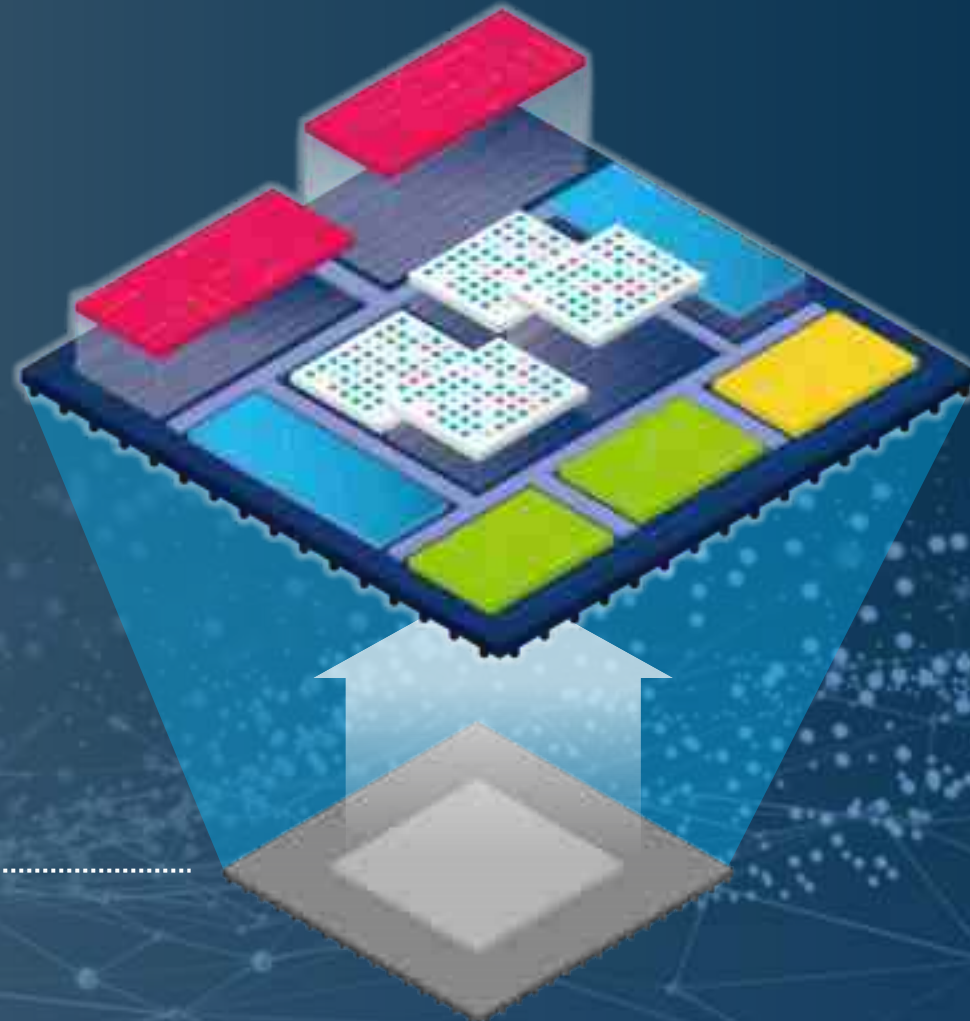


01 | Growth Plan

Expanding Portfolio with AI Semiconductor IP Solution

Multi Die/Chip

On-die



02 | Strengthen existing IP competitiveness

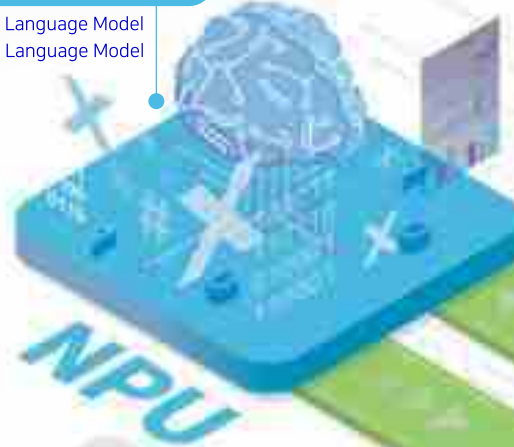
Improving performance and Expansion of existing IP products



AI semiconductor

+ LLM and SLM support & expansion to high performance

* LLM : Large Language Model
SLM : Small Language Model



+ Porting House Operation → Expanding Foundry Process Coverage

* PHY Porting House: Responsible for simple repetitive tasks (layout, etc.), reviewing establishment of a subsidiary in Vietnam or Eastern Europe

+ IP Verification Subsidiary Operation → IP Release Capacity Expansion, Cost Efficiency Improvement

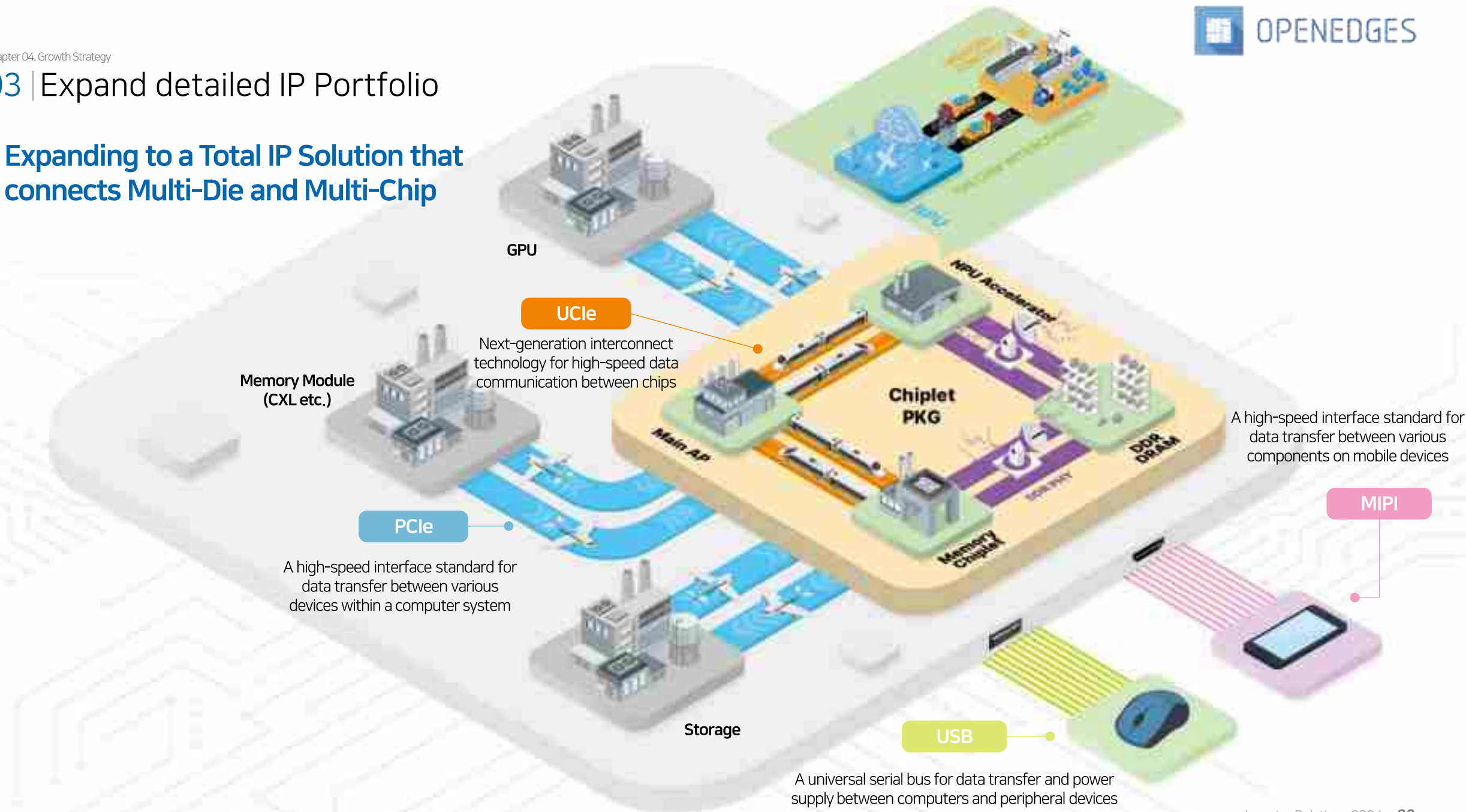
* Considering establishment of a subsidiary in Vietnam or Eastern Europe

+ Cache Coherence Network-on-Chip IP in development

* IP responsible for maintaining data consistency in the cache memory within the SoC, a technology required when designing high-performance AI semiconductors based on multi-core

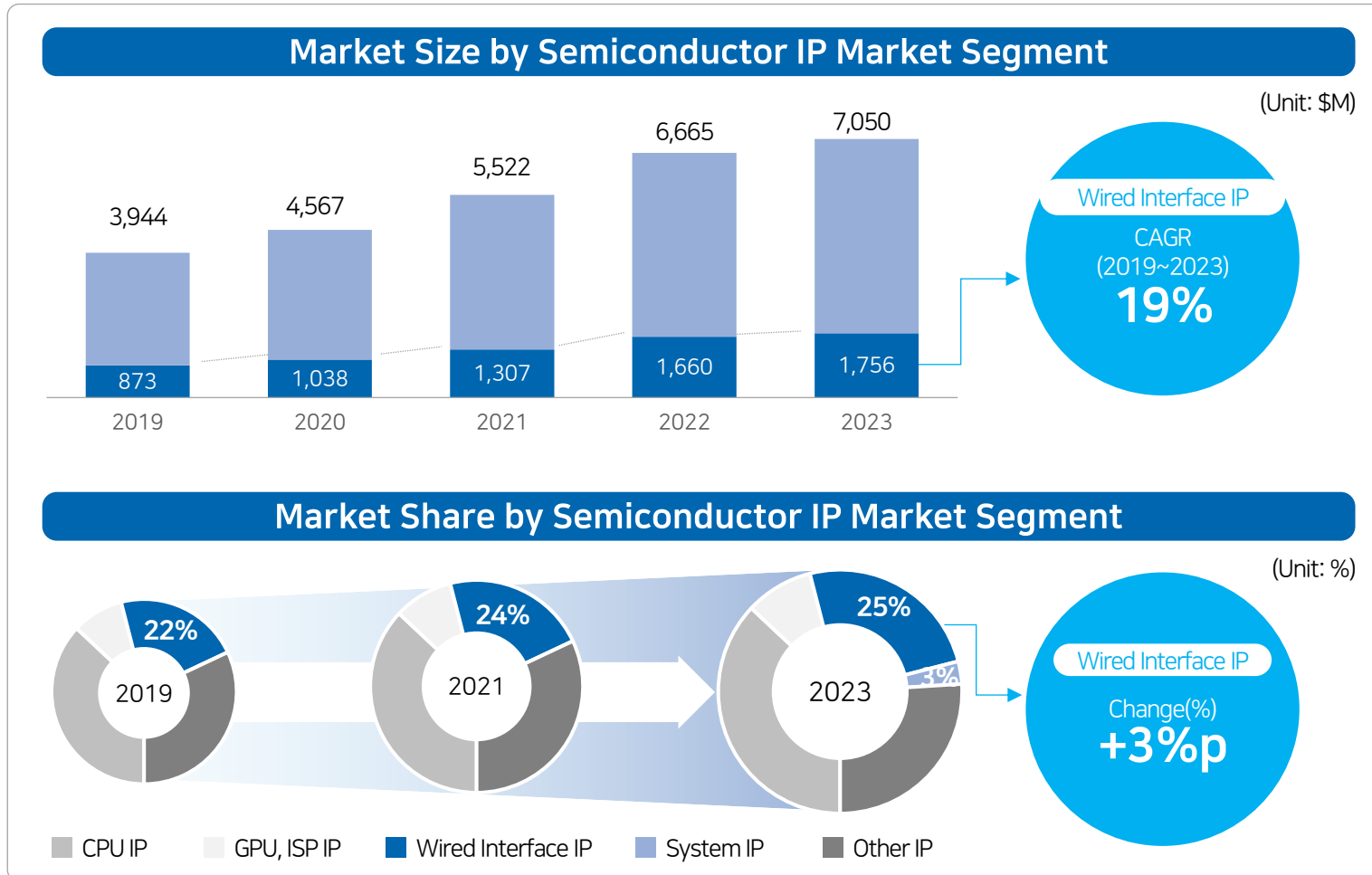
03 | Expand detailed IP Portfolio

Expanding to a Total IP Solution that connects Multi-Die and Multi-Chip



04 | Why Expanded IP Portfolio? ① Rapid growth of the Wired Interface IP market

Wired Interface IP sector is growing the fastest due to increasing data demand for AI computing



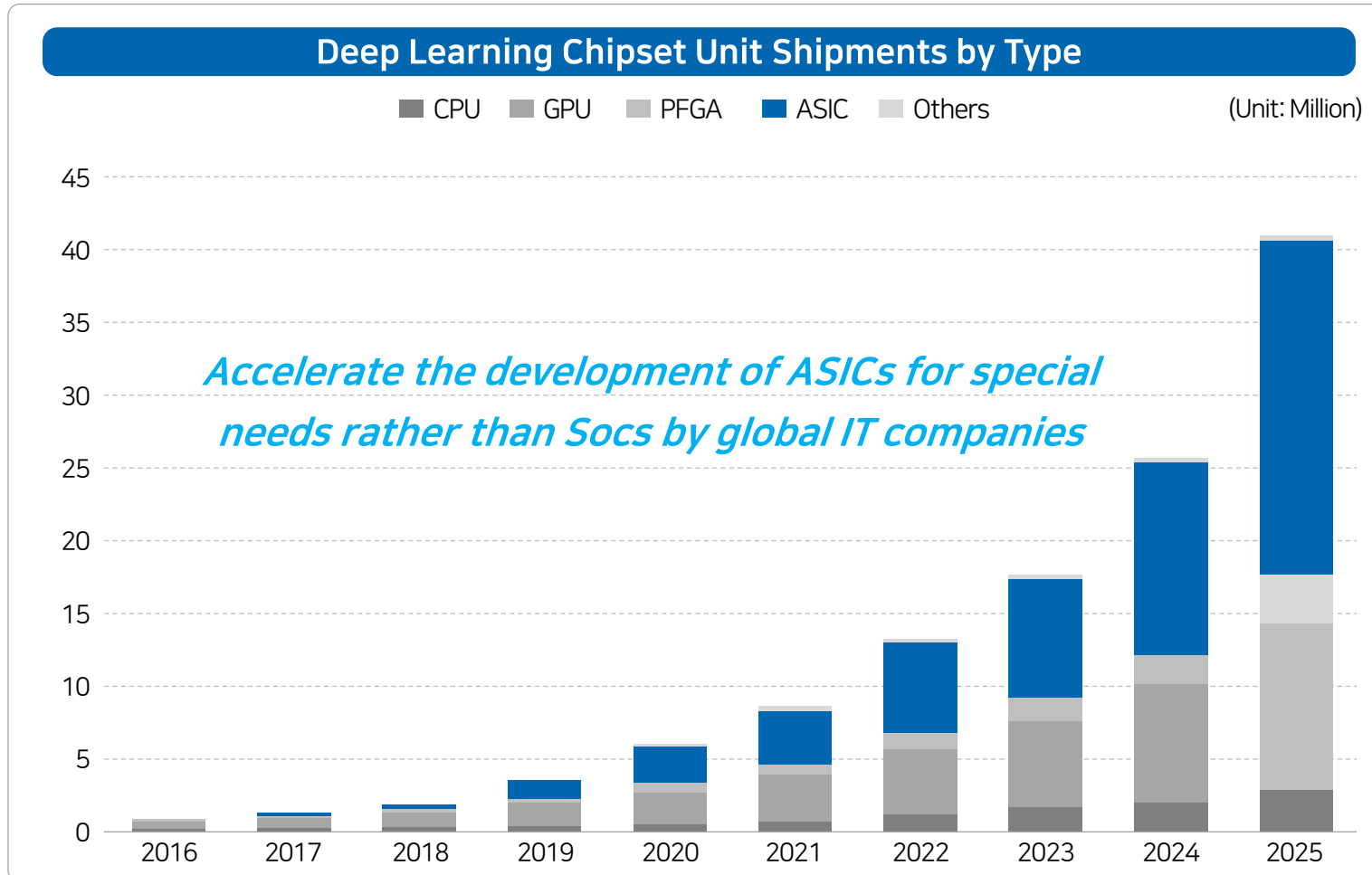
Wired Interface IP Growth Factors

- Explosive Increase in Data Bandwidth Demand for AI
- New memory standards → IP prices rise sharply
- Oligopoly market system (Only 3 players including Openedges)

※ Resources: IPnest (As of May, '24)

04 | Why Expanded IP Portfolio? ② Responding to demand for customized AI semiconductor chips (ASIC)

AI semiconductor market paradigm shift from SoC to ASIC
 → Increased need for cooperation with semiconductor IP companies

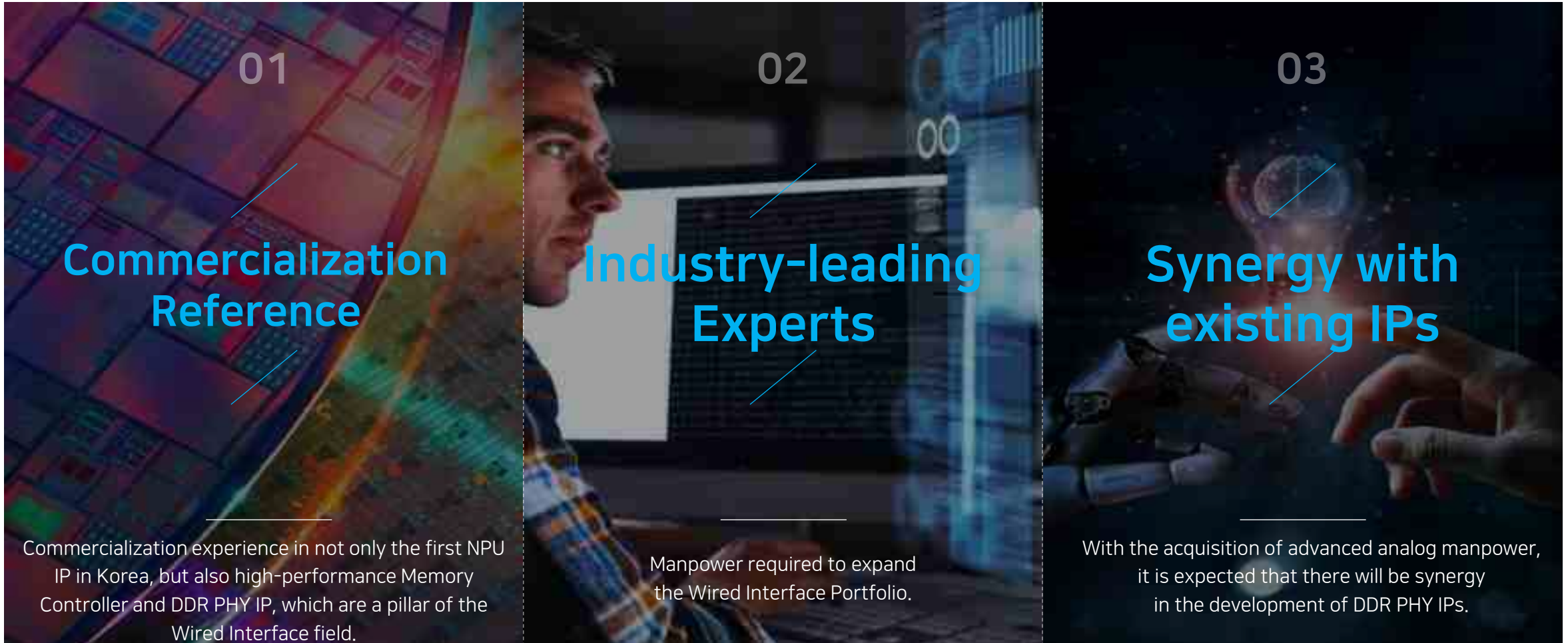


Factors in demand for ASIC

- Need for complex neural network response capable of complex natural language processing such as LLM/SLM
- Design optimization from a whole chip perspective is needed to support data intensive computing

05 | How to Succeed?

Openedges has already secured industry-leading human resources and commercialization reference



01

Commercialization Reference

Commercialization experience in not only the first NPU IP in Korea, but also high-performance Memory Controller and DDR PHY IP, which are a pillar of the Wired Interface field.

02

Industry-leading Experts

Manpower required to expand the Wired Interface Portfolio.

03

Synergy with existing IPs

With the acquisition of advanced analog manpower, it is expected that there will be synergy in the development of DDR PHY IPs.

06 | Comparing Competitor IP Portfolios

By commercializing each IP in the Wired Interface IP field sequentially, Openedges will build up the Total AI Platform IP Solution optimized with ENLIGHT NPU by 2030.

Global Top 5 IP Companies vs. Openedges

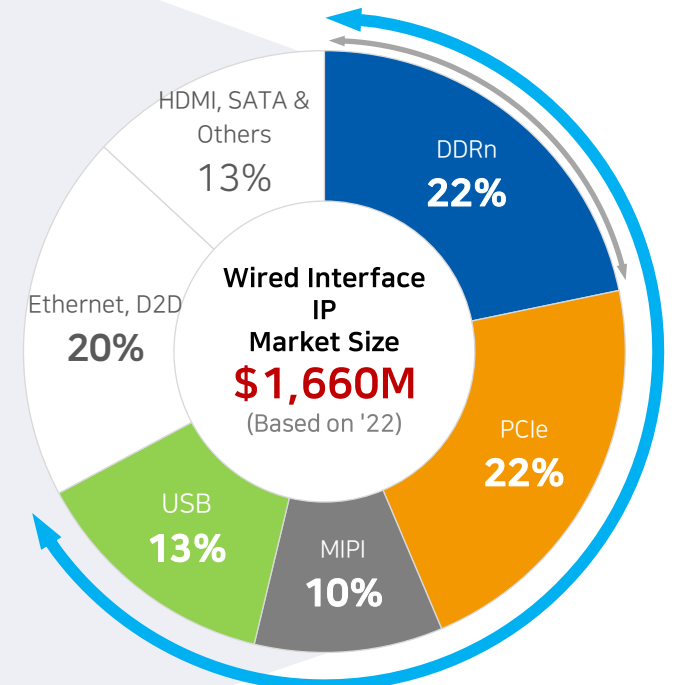
IPs		Openedges	arm	Synopsys	Cadence	Alphawave Semi	Imagination Technologies	
Processor IP	CPU (Central Processing Unit)	-	●	●	-	-	●	
	GPU, ISP (Image Signal Processor)	-	●	- *RISC-V	-	-	●	
	DSP (Digital Signal Processor)	-	-	●	●	-	-	
	NPU (Neural Processing Unit)	●	○	○	○	-	●	
Physical IP	Wired Interface IP	DDR Cont'r/PHY	●	-	●	●	-	
		HBM Cont'r/PHY	●	-	●	●	-	
		UCle Cont'r/PHY	★	-	●	●	●	-
		PCIe Cont'r/PHY	★	-	●	●	●	-
		CXL Cont'r/PHY	★	-	●	●	●	-
		Ethernet	-	-	●	●	●	-
		USB	★	-	●	●	-	-
		SATA(Serial ATA)	-	-	●	●	-	-
		HDMI	-	-	●	●	-	-
		Display Port	-	-	●	●	-	-
		MIPI	★	-	●	●	-	-
Other Digital IP	Memory Compilers (Others)	-	-	●	-	-	-	
	Standard Cell & I/O	-	●	●	-	-	-	
	Memory Compilers (SRAM)	-	●	●	-	-	-	
	Analog & Mixed Signal	-	-	●	●	-	-	
	Wireless Interface IP	-	-	●	-	-	-	
Other Digital IP	Miscellaneous IP	-	-	●	●	-	-	
	System IP (CC NoC, NCC NoC 등)	●	●	○	○	-	-	
	Security IP	-	●	●	-	-	-	

* ○: We judge the company to be a non-major competitor with little history of competition in the market (focused on low-end)

★: Candidates for Openedges ★: FY 2025 / ★: FY 2026 / ★: FY2027~

Expanding market coverage

22% ➔ 67%



※ The D2D (UCle) market is expected to grow rapidly in the future due to the increase in demand for chiplet development, although the market size in 2022 is small and difficult to distinguish from Ethernet.

[Appendix] Financial Statements(Consolidated)

● Statement of Financial Position

(Unit: KRW 1 million)

	2Q24	2023	2022	2021
Current Assets	22,449	29,843	44,304	29,020
Non-current Assets	11,216	14,849	9,552	7,077
Total Assets	33,664	44,692	53,855	36,097
Current Liabilities	18,662	19,750	18,318	9,171
Non-current Liabilities	4,972	4,371	3,288	6,374
Total Liabilities	23,634	24,121	21,606	15,545
Capital	2,184	2,146	2,116	1,653
Capital Surplus	100,573	98,259	96,376	58,927
Other Capital	3,552	3,577	2,026	3,007
Retained earnings	△96,279	△83,412	△68,269	△43,035
Total Equity	10,031	20,571	32,249	20,553

● Income Statements

(Unit: KRW 1 million)

	2Q24	1Q24	Change	Change(%)
Sales Revenue	4,050	2,484	1,566	63%
Operating Expenses	9,784	9,589	195	2%
R&D Cost	7,816	7,543	273	4%
Selling General & Admin. Expense	1,968	2,046	△78	△4%
Operating Profit	△5,733	△7,106	1,373	N/A
Financial Income	285	380	△95	△25%
Financial Expenses	347	416	△69	△17%
Other Income	35	37	△2	△5%
Other Costs	1	-	1	N/A
Profit before Income Tax Expense	△5,762	△7,106	1,344	N/A
Income Tax Expense	-	-	-	N/A
Net Income	△5,762	△7,106	1,344	N/A

[Appendix] | Financial Summary

Financial Summary

(Unit: KRW 1 Million)

Consolidated	2019	2020	2021	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23	4Q23	2023	1Q24	2Q24
Revenue	1,238	1,089	5,186	3,033	3,975	1,577	1,426	10,012	1,059	2,842	1,885	13,809	19,595	2,484	4,050
License fee	990	660	4,342	2,798	3,619	1,175	1,001	8,593	555	2,370	1,261	10,666	14,852	1,627	3,103
Maintenance	249	423	808	230	350	392	415	1,387	487	454	604	762	2,308	716	764
Royalty	-	6	35	5	7	10	10	32	17	18	20	17	71	2	18
Others	-	-	-	-	-	-	-	-	-	-	-	2,363	2,363	138	166
Cost and Expense	4,422	8,896	16,241	5,792	7,293	7,844	14,344	35,273	8,801	8,422	9,311	8,924	35,458	9,589	9,784
R&D Cost	2,347	6,623	10,654	3,937	5,361	6,063	12,349	27,710	7,052	6,546	7,146	6,439	27,184	7,543	7,816
Selling General & Admin Expense	2,075	2,273	5,587	1,855	1,932	1,782	1,995	7,563	1,749	1,876	2,165	2,485	8,275	2,046	1,968
Operating Income	△3,183	△7,807	△11,055	△2,759	△3,317	△6,267	△12,918	△25,261	△7,742	△5,581	△7,426	4,885	△15,864	△7,106	△5,733
Net Profit before Corporate Tax Costs	△8,487	△18,729	△14,524	△2,906	△3,398	△6,181	△12,362	△24,846	△7,634	△5,559	△7,317	6,000	△14,510	△7,106	△5,762
Net Income	△8,487	△18,729	△14,608	△2,906	△3,398	△6,178	△12,745	△25,227	△7,631	△5,557	△7,310	5,642	△14,856	△7,106	△5,762

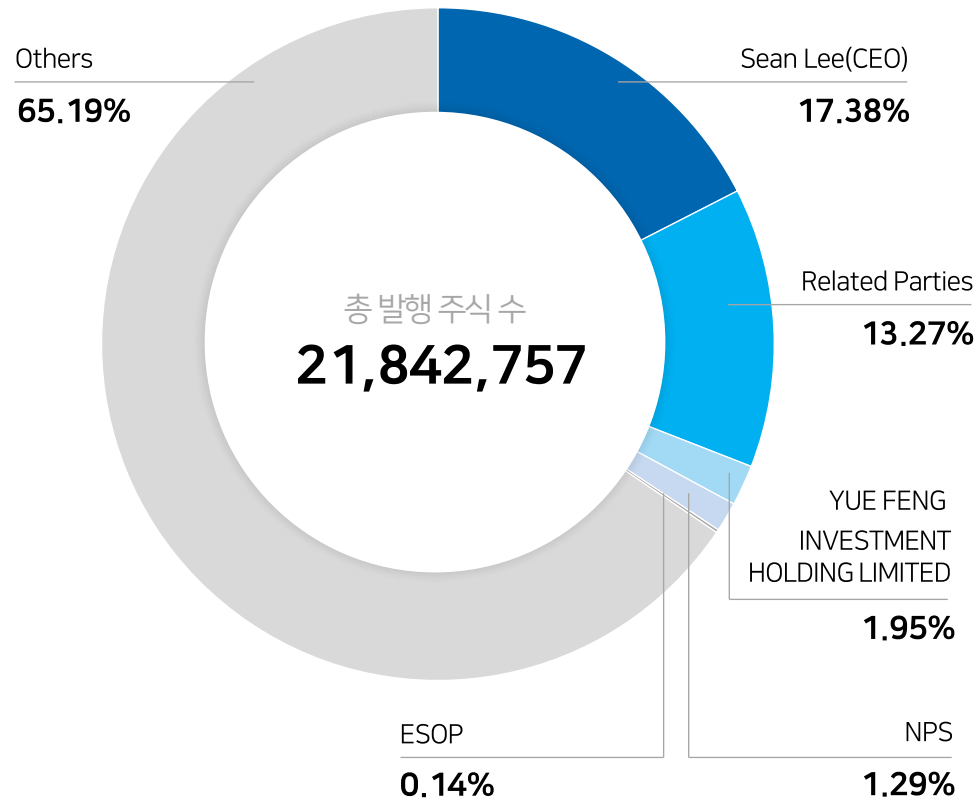
※ Numbers are based on consolidated financial statements.

[Appendix] Shareholders

Sean Lee(CEO, 17.38%) & related parties own more than 30%(30.65%)

* Co-founders, Executives etc.

Shareholder Status ('24.6.30.)



Name	Type	# of shares	%
Sean Lee(CEO)	Common	3,796,314	17.38%
Related Parties	Common	2,899,543	13.27%
YUE FENG INVESTMENT HOLDING LIMITED	Common	425,000	1.95%
NPS (National Pension Service)	Common	281,706	1.29%
ESOP	Common	30,980	0.14%
Others	Common	14,239,308	65.19%
Total		21,842,757	100.00%

※ Date: '24.6.30.

※ Reference: '24.7.22, Stonebridge and Atinum each acquired 1,474,853 shares of convertible preferred stock by issuing new stocks allocation to the third-parties.