Investor Relations 2024

GAONCHIPS

Your Partner in Semiconductor Innovation

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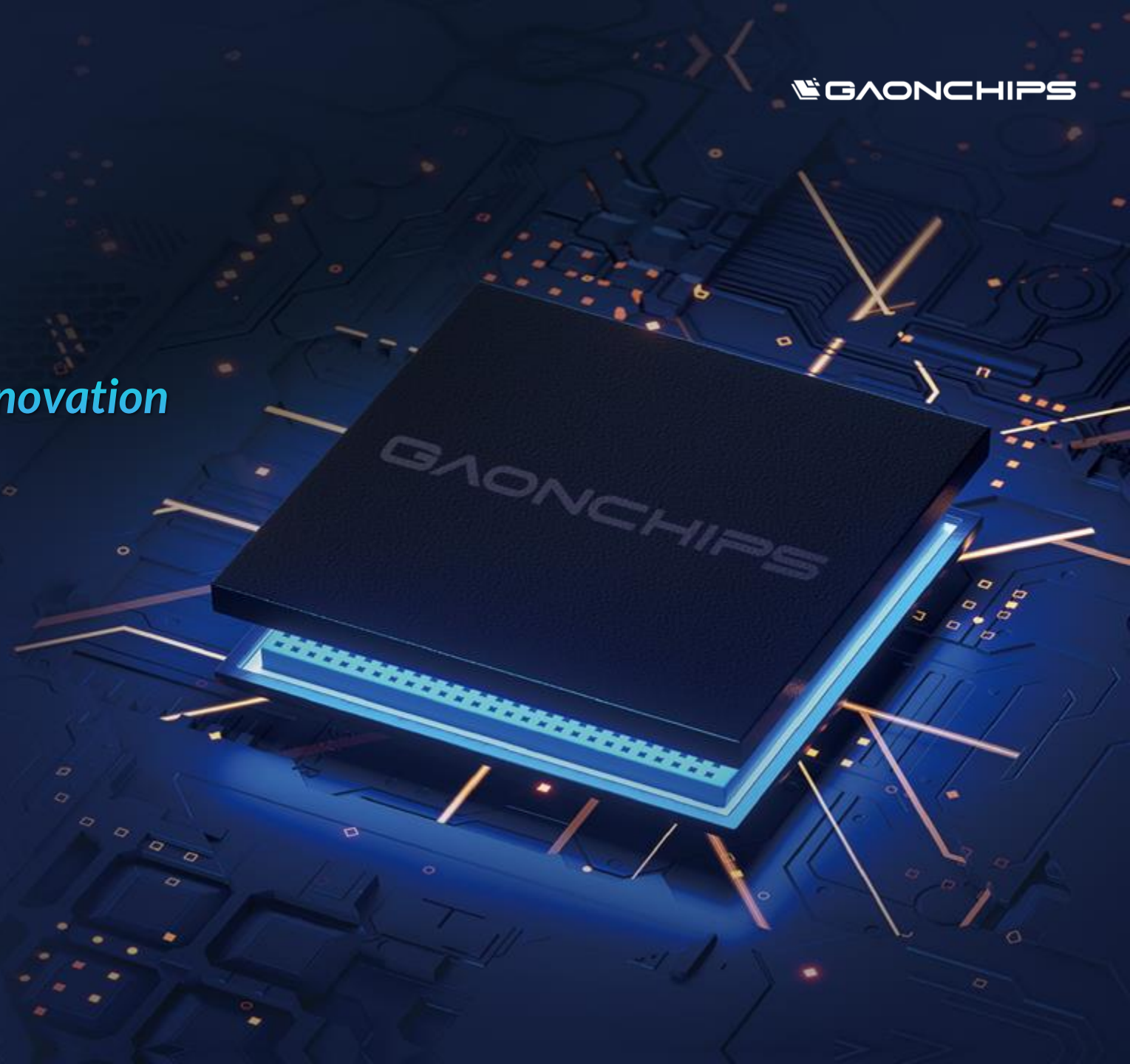

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AUG 2024

Investor Relations

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GAONCHIPS Overview

The Most Trusted Design Solution Partner

Empowering Your Success, All-round Best Track Record

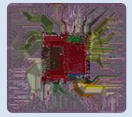
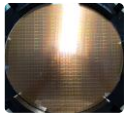
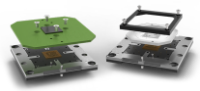
SAMSUNG Foundry Project Tape-outs	Technology Experiences	Revenue from AI/HPC & Automotive	Number of Employees	2020 to 2024 CAGR	Revenue from ≤14nm Advance node
Over 220	Up to 2nm	Over 70%	Over 260	Over 50%	Over 80%

2024	Arm Design Partner of the Year 2023
	SYNOPSYS IP OEM Partner
2022	Arm Design Partner of the Year 2021
	IPO (Listed on the KOSDAQ)
2021	Arm Design Partner of the Year 2020
2020	AADP (Arm Approved Design Partner)
2019	SAMSUNG FOUNDRY Best Design Partner
	SAMSUNG FOUNDRY Design Solution Partner
2018	SAMSUNG FOUNDRY MPW Partner
2017	SAMSUNG FOUNDRY Channel Partner
2014	SAMSUNG Electronics ASIC Design Service Partner
2012	GAONCHIPS Co., Ltd. Founded

GAONCHIPS design solution company BM

Design solution company supports design and entire process of before and after production

" The design solution company has emerged as a 'hub' leading the joint growth of Fabless, Foundry, and OSAT "

Fabless	Design solution company				Foundry	OSAT	End customer
							
Specification	Design Circuit	IP sourcing	Product design	Package design	Mass production	PKG/TEST	OEM / Big Tech

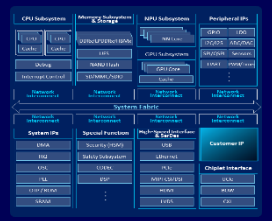
	IP Vendors	Fabless	Foundry	OSAT	End Customer
Future — Producer (Chipless)	**Supporting mass production of ASIC semiconductor for End customers** Supply ASIC semiconductors by providing 'A to Z services' related to semiconductor design and mass production to end-customers such as OEMs, Set makers, and Big tech who want their chip independence				
Now — Facilitator (Turn-key)	**Provides turnkey service for fabless** Support more difficult designs such as pre-design and collaborate with IP vendor and OSAT companies to conduct turnkey business				
Before — Broker		**Fabless Design Service** Process design support, Foundry customer responsiveness			

GAONCHIPS Service Coverage

Tailor-made Full Turnkey Solution

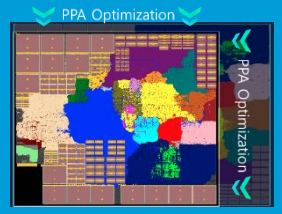
From Design Planning to Mass Production

FULL CHIP DESIGN



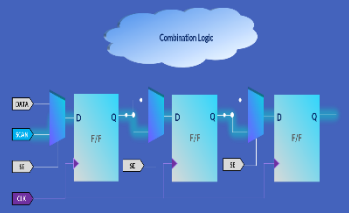
- Design / Verification Platform
- System Architecture Design
- Functional Safety
- FPGA Prototyping
- Device Driver, BSP, OS porting

xPU HARDENING



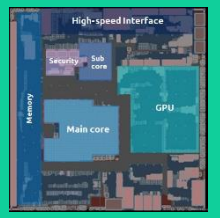
- IP Supplier Partnership
- PPA Optimization (Power/Area/Performance)
- Floorplan & Layout (Hard Macro IP, SRAM)

PHYSICAL IMPLEMENTATION



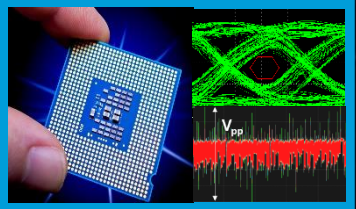
- DFT (SCAN/BIST/JTAG)
- In-system Test
- STA (Static Timing Analysis)
- Synthesis & Timing Closure

PHYSICAL DESIGN



- Full Chip Floor Plan
- Hierarchical Physical Layout
- Low Power Design
- SI Check (IR Drop, Crosstalk-Noise)

PKG & TEST DEVELOP



- Package Design Guide
- Off-chip PSI Simulation
- Test vector generation
- ATE test set-up
- Qualification & Reliability

PRODUCT MANUFACTURING

- Wafer Business
- Full Turn-key Business (Wafer + PKG + TEST)
- QA & Failure analysis

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	SoC Design	Synthesis	Netlist Hand-off	DFT Service	Placement & Routing	Physical Verification	Test /PKG	SCM (MP)
Level 0	√	√	√	√	√	√	√	√
Level 1		√	√	√	√	√	√	√
Level 2			√	√	√	√	√	√
Level 3						√	√	√

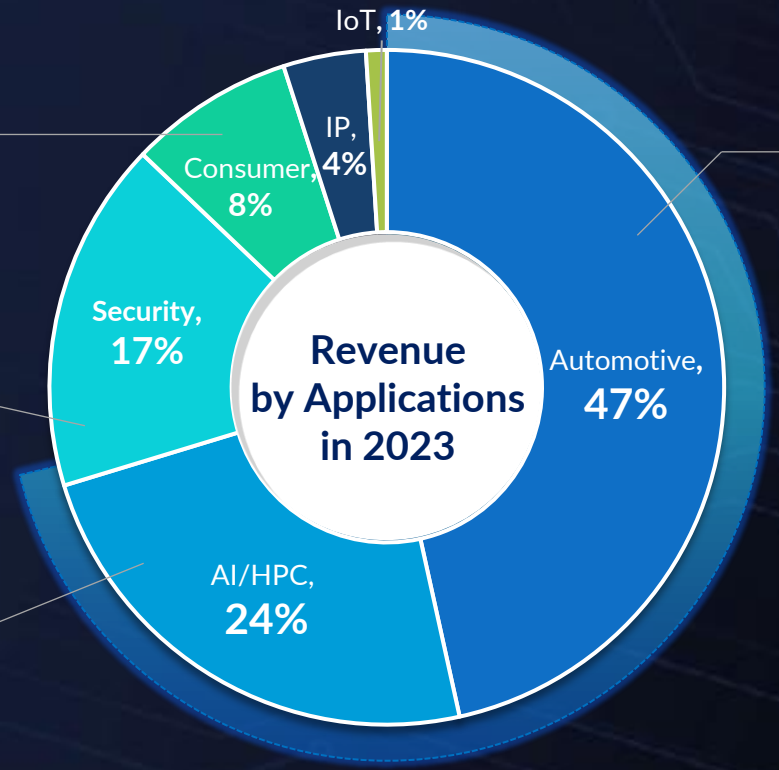
High-growth market oriented project portfolio

Automotive Heritage with various design experiences and competitiveness
(Robust Design, Advanced DFT (Inc. In-system Test), Etc.)
Ramp up the AI-powered HPC market

Display / Mobile / Entertainment

Surveillance

AI Accelerator / Server



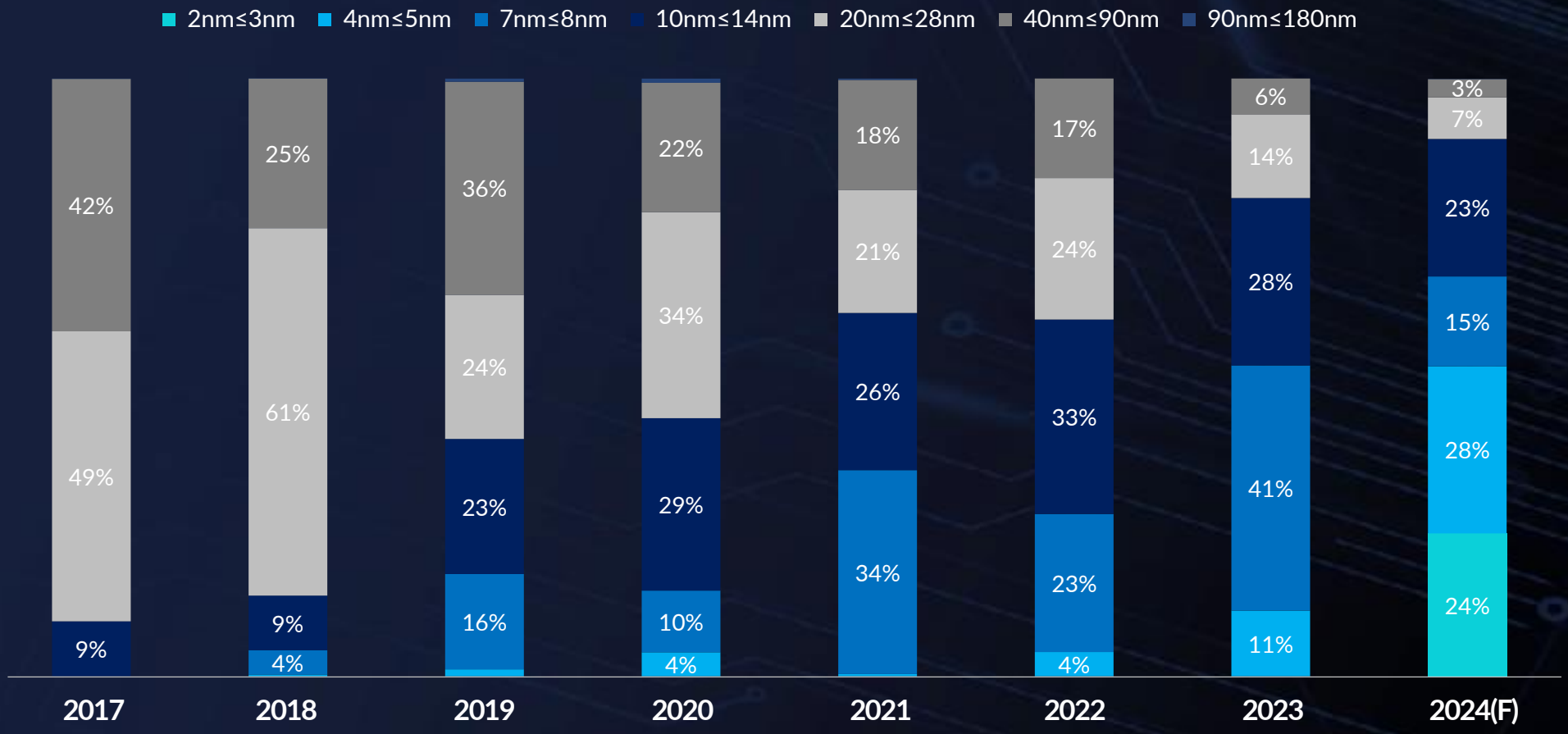
- Cluster/Infotainment System
- Rear/Surround-View / In-Cabin
- Network/Gateway Processor
- Vision Processor / ADAS

GAONCHIPS Revenue by Technology

Focused on the Advanced Technology Node

Revenue Breakdown by Technology

(Unit: %)



GAONCHIPS Global Networks

US Subsidiary
San Jose

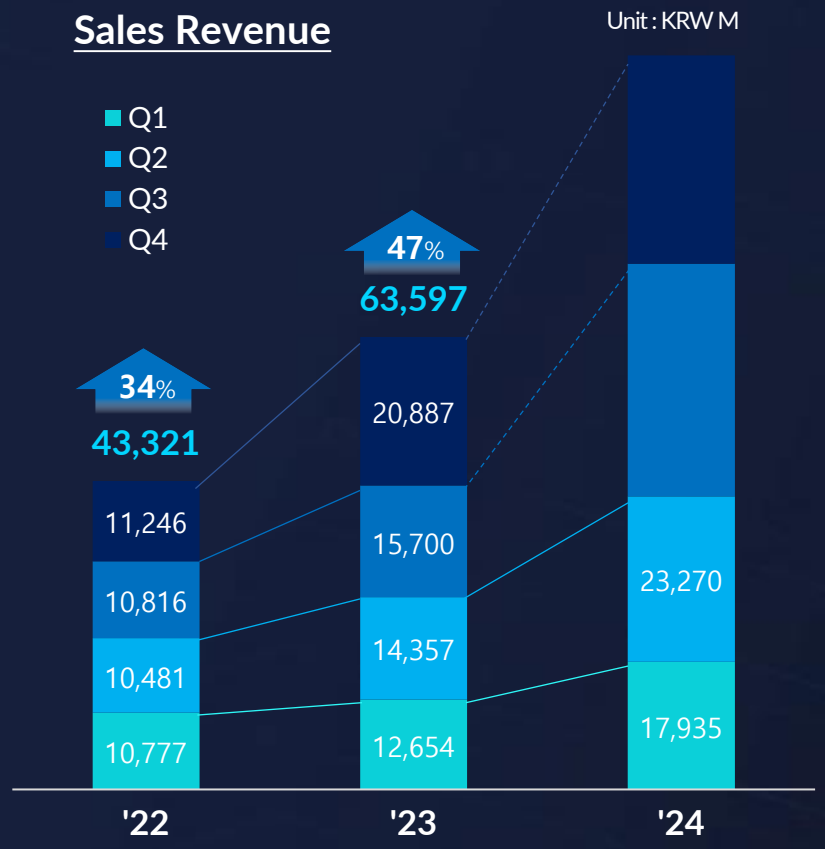
KOREA R&D Center
Pangyo

KOREA HQ
Pangyo

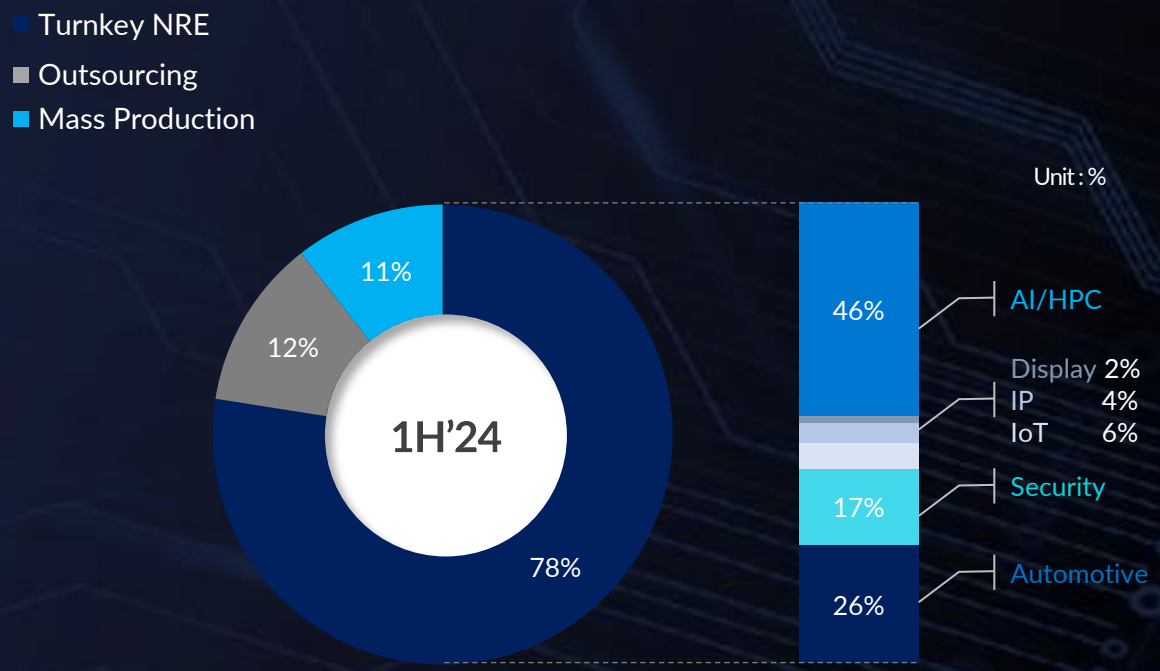
JAPAN Subsidiary
Tokyo

GAONCHIPS Financial & Business Highlight @1H'24

Sales Revenue



Sales Portfolio



2024

- 1st Overseas Customer Project Win (JPN)
- Arm Best Design Partner of the Year
- US Office Launching (@San Jose)

- 2nm AI Project Design-Win
- SYNOPSYS IP OEM Partnership
- 5nm AI Project Launching for Mass Production

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GAONCHIPS Financial & Business Highlight @1H'24

Quarterly Sales & Profit

Unit : KRW M

(연결기준)	2022년 (제11기)				2023년 (제12기)				2024년 (제13기)	
	1분기	2분기	3분기	4분기	1분기	2분기	3분기	4분기	1분기	2분기
매출액	10,777	10,481	10,816	11,246	12,654	14,357	15,700	20,887	17,935	23,270
매출원가	7,802	8,608	7,434	7,848	11,290	11,362	12,078	16,149	16,030	19,912
매출총이익	2,975	1,873	3,383	3,398	1,364	2,995	3,622	4,737	1,905	3,358
판매비와관리비	1,424	2,188	2,436	1,680	2,005	1,528	2,459	2,375	2,514	3,291
영업이익(손실)	1,552	(315)	946	1,717	(641)	1,467	1,163	2,363	(609)	67
당기순이익(손실)	1,664	12	755	1,988	40	1,697	1,073	3,535	(402)	1,510

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“Your first and last design partner”

GAONCHIPS

Contact Us

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