

Safe Harbor for Forward-Looking Statements; Other Disclosures

This presentation contains forward-looking statements, including those relating to the Company's expectations regarding business opportunities, the Company's ability to deliver long-term, profitable growth, industry growth rates, timing of expected product launches, demand for existing and newly-acquired technologies, product and investment strategies, the Company's outlook and financial guidance for recent and upcoming quarters and related drivers, the Company's ability to effectively manage market challenges, and the effects of ASC 606 on reported revenue, among other items.

Such forward-looking statements are based on current expectations, estimates and projections, management's beliefs and certain assumptions. Actual results may differ materially. The Company's business generally is subject to a number of risks which are described more fully in the Company's periodic reports filed with the Securities and Exchange Commission. The Company undertakes no obligation to update forward-looking statements to reflect events or circumstances after the date hereof.

This presentation contains non-GAAP financial measures, including cost of product revenue, operating costs and expenses, and interest and other income (expense), net. In computing these non-GAAP financial measures, stock-based compensation expenses, acquisition/divestiture-related costs and retention bonus expense, gain on divestiture, impairment of assets, amortization of acquired intangible assets, expense on abandoned operating leases, restructuring and other charges, provision for (benefit from) income taxes, change in fair value of earn-out liability, gain on sale of equity investment and certain other one-time adjustments were considered. The non-GAAP financial measures should not be considered a substitute for, or superior to, financial measures calculated in accordance with GAAP, and the financial results calculated in accordance with GAAP and reconciliations from these results should be carefully evaluated. Management believes the non-GAAP financial measures are appropriate for both its own assessment of, and to show investors, how the Company's performance compares to other periods. Reconciliations from GAAP to non-GAAP results are made available and more fully described on our website as well as in the back of this deck and in the earnings release.



\$247M

2024 Product Revenue

\$231M

2024 Cash from Operations

2024 Record

Product Revenue and New Product Introductions

Industry-Leading
Chips and Silicon IP



Data Center & Al

>75% of Chip and Silicon IP Revenue

+28%

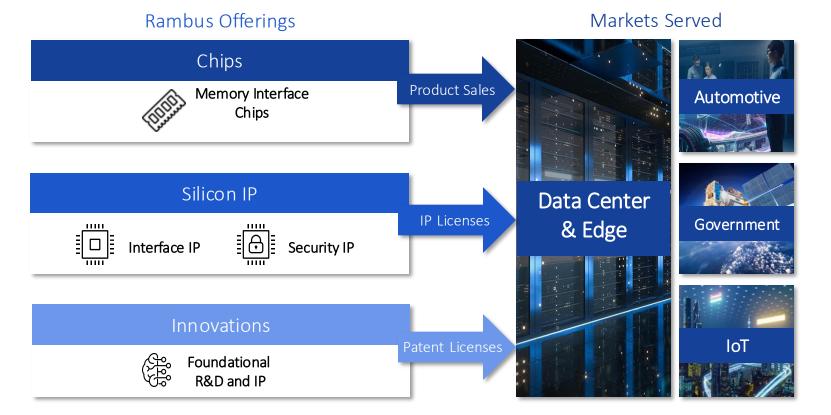
5-year CAGR Product Revenue

35 Years Technology Leadership

San Jose HQ Global Footprint **~700 Employees** >70% in Engineering

~2700
Patents and Patents Pending

Semiconductor Solutions Built on Innovation

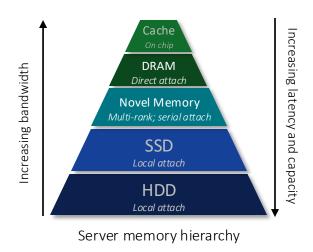




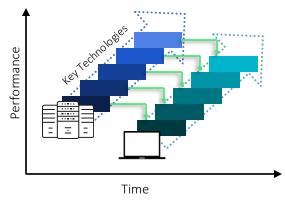
Amplified Opportunities in Data Center and Al

Meeting memory performance requirements of growing AI workloads 100T 10T 1T 100B Time AI Model Sizes (Parameters)

Addressing bandwidth and capacity requirements with novel memory solutions



Broadening adoption of key technologies into adjacent markets



Key Technologies:

- Memory
- Power Management
- Clocking

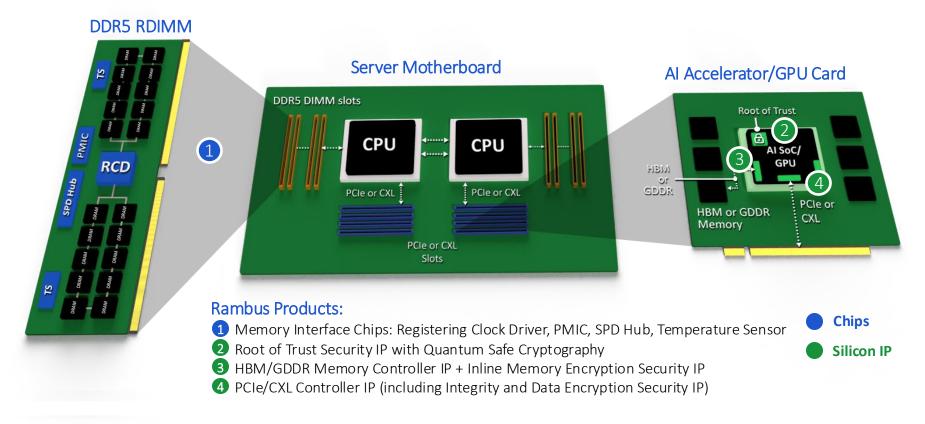
- Interconnects
- Security

والمام المسال والمساور

Increasing need for performance, delivered securely and reliably

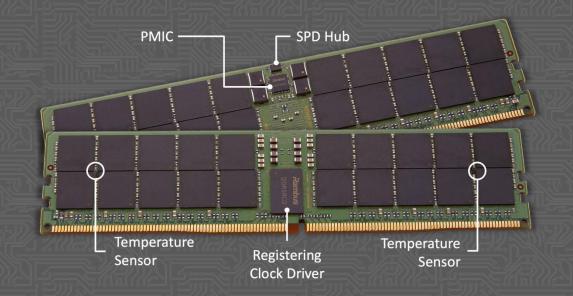


Rambus Solutions for the Data Center



Rambus Memory Interface Chips

Driving the pace of server main memory performance



DDR5 Server Chipset

42%

5-Year Product Revenue CAGR (~Memory Interface Chips)

Industry-leading DDR5 RCDs

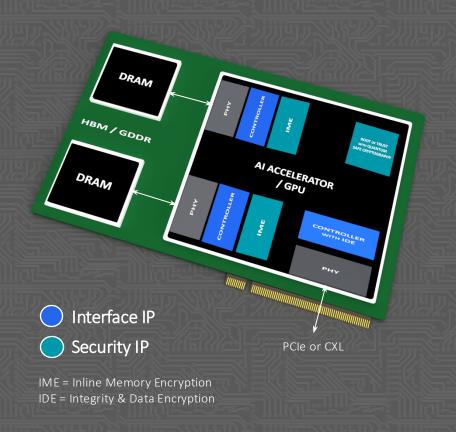
Gen1 4800 MT/s to Gen5 8000 MT/s

Expanding DDR5 chip portfolio:

- MRCD & MDB 12800 MT/s
- PMICs
- SPD Hub* & Temperature Sensor
- Client Clock Driver*

*Supports client DIMMs

Silicon IP Solutions for Al



- Essential building blocks for highperformance chips: HBM, GDDR, PCle, CXL, PQC, Root of Trust, IME/IDE
- Key Benefits
 - Deliver industry-leading bandwidth performance
 - Enable high-speed data communications between devices
 - Protect data at rest, in use and in motion

Rambus Uniquely Positioned for Novel Memory Solutions

Industry Leadership

Industry leading performance to 12800 MT/s (MRDIMM) and 8000 MT/s (RDIMM) for DDR5-based servers and PCs

Core Expertise

World-class expertise in memory interface and interconnect subsystems (digital controller and security IP)

Innovation

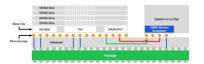
34 years of research and innovation in high-performance memory, high-speed interfaces, and hardware security

Foundation

Company founded on mission to drive increased memory bandwidth for greater computing performance



DDR5 Memory Interface Chipset



HBM3E Memory Interface IP



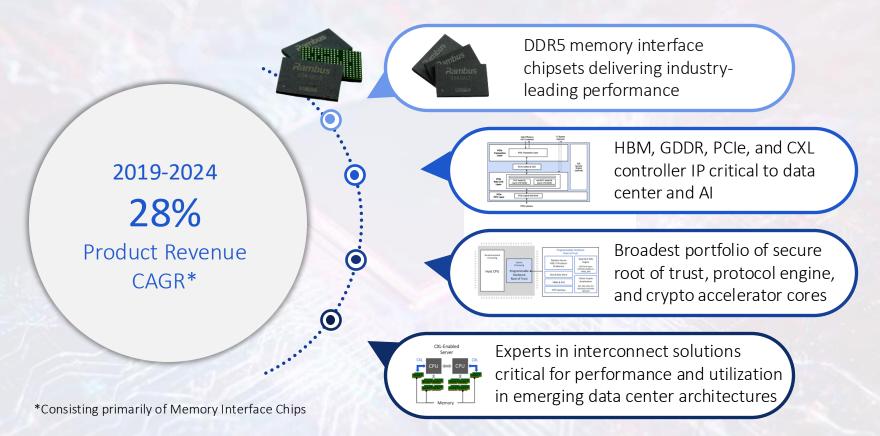
Smart Data Acceleration Engine



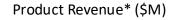
RDRAM Synchronous Memory

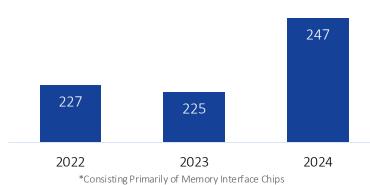


Product Leadership Driving Long-term Growth



Financial Highlights

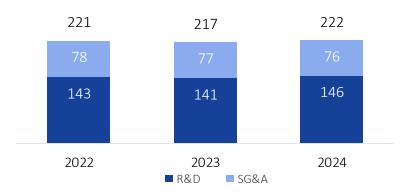




Cash from Operations (\$M) & FCF per Share (\$)



Pro Forma Operating Expenses (\$M)



Cash Equivalents & Return of Capital (\$M)



Rambus Investment Summary



Amplified opportunity in data center fueled by AI with expanding product portfolio and sustained technical leadership



Pioneer of industry-leading chips and silicon IP enabling critical performance improvements for the continued evolution of the data center



Continued innovation feeds patent portfolio and product roadmap expansion



Focus on strategic initiatives drives financial results and profitable growth



Strong cash generation fuels growth initiatives and return of value to stockholders





Strong cash generation fuels growth initiatives and return of value to stockholders

Outstanding Cash Generation

	<u>ASC 606</u>	<u>ASC 606</u>	ASC 606	ASC 606	ASC 606	
In Millions	Q4 2023	Q1 2024	Q2 2024	Q3 2024	Q4 2024	
Revenue	\$122.2	\$117.9	\$132.1	\$145.5	\$161.1	Quarter over quarter growth driven by strong product performance
Total Operating Costs and Expenses ¹	\$71.9	\$74.2	\$77.0	\$80.5	\$89.2	Strategic R&D investment to support core growth initiatives
Operating Income ¹	\$50.3	\$43.7	\$55.1	\$65.1	\$71.9	Increase in operating income reflects revenue growth and closer alignment with cash flows from fewer fixed-fee licensing arrangements
Cash from Operations	\$54.8	\$39.1	\$70.4	\$62.1	\$59.0	Continued strong cash generation

¹Please refer to reconciliations of non-GAAP financial measures included in this presentation and in our earnings release

Strong Balance Sheet Supports Strategic Initiatives

In Millions	Q4 2023	Q1 2024	Q2 2024	Q3 2024	Q4 2024	
Total Cash & Marketable Securities	\$425.8	\$391.1	\$432.9	\$432.7	\$481.8	Sustained, predictable cash generation Returned capital to stockholders through \$113M in share repurchases in FY24
Total Assets	\$1,258.2	\$1,208.8	\$1,250.6	\$1,251.6	\$1,343.1	Strong balance sheet and debt free
Stockholders' Equity	\$1,038.1	\$991.6	\$1,028.9	\$1,039.0	\$1,120.7	S .
Cash from Operations	\$54.8	\$39.1	\$70.4	\$62.1	\$59.0	Record annual cash from operations



Reconciliation of Non-GAAP Financial Measures

Net Income in Millions	Q4 2023 (ASC 606)	Q1 2024 (ASC 606)	Q2 2024 (ASC 606)	Q3 2024 (ASC 606)	Q4 2024 (ASC 606)
GAA P Net Income	\$59	\$33	\$36	\$49	\$62
Adjustments:					
Stock-based compensation	\$11	\$9	\$12	\$12	\$12
Amortization of acquired intangible assets	\$3	\$3	\$3	\$3	\$2
Provision for (benefit from) income taxes	(\$9)	(\$9)	(\$5)	(\$5)	(\$17)
Change in fair value of earn-out liability	\$1	\$1	(\$1)	(\$5)	\$0
Impairment of assets	\$0	\$0	\$1	\$0	\$0
Gain on sale of equity investment	(\$24)	(\$0)	\$0	\$0	\$0
Non-GAAP Net Income	\$41	\$37	\$46	\$54	\$60
Operating Income in Millions	Q4 2023 (ASC 606)	Q1 2024 (ASC 606)	Q2 2024 (ASC 606)	Q3 2024 (ASC 606)	Q4 2024 (ASC 606)
Operating Income in Millions GAAP Operating Income					
	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)
GAAP Operating Income	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)
GAAP O perating Income Adjustments:	(ASC 606) \$35	(ASC 606) \$30	(ASC 606) \$40	(ASC 606) \$55	(ASC 606) \$58
GAAP O perating Income Adjustments: Stock-based compensation	\$35 \$11	(ASC 606) \$30 \$9	\$40 \$12	(ASC 606) \$55 \$12	\$58 \$12
GAAP Operating Income Adjustments: Stock-based compensation Amortization of acquired intangible assets	\$35 \$11 \$3	\$30 \$9 \$3	\$40 \$12 \$3	\$55 \$12 \$3	\$58 \$12 \$2
GAAPO perating Income Adjustments: Stock-based compensation Amortization of acquired intangible assets Change in fair value of earn-out liability	\$35 \$11 \$3 \$1	\$30 \$9 \$3 \$1	\$40 \$12 \$3 (\$1)	\$55 \$12 \$3 (\$5)	\$58 \$12 \$2 \$0
GAAP Operating Income Adjustments: Stock-based compensation Amortization of acquired intangible assets Change in fair value of earn-out liability Impairment of assets	\$35 \$11 \$3 \$1 \$0	\$30 \$9 \$3 \$1 \$0	\$40 \$12 \$3 (\$1) \$1	\$55 \$12 \$3 (\$5) \$0	\$58 \$12 \$2 \$0 \$0

^{*} Tables exclude the following items which round to \$0M: Acquisition/divestiture-related costs and retention bonus expense, Expense on abandoned operating leases, Restructuring and other charges and Gain on divestiture



^{**} Certain amounts may be off \$1.0M due to rounding.

Revenue and Licensing Billings

	ASC 606					ASC 606				
In Millions	Q1'23	Q2'23	Q3'23	Q4'23	FY 2023	Q1'24	Q2'24	Q3'24	Q4'24	FY 2024
Royalty Revenue	\$28.2	\$40.7	\$28.9	\$52.4	\$150.1	\$47.5	\$56.4	\$64.1	\$58.2	\$226.2
Product Revenue	63.8	55.0	52.2	53.7	224.6	50.4	56.7	66.4	73.4	246.8
Contract and Other Revenue	21.8	24.2	24.3	16.1	86.4	20.0	19.1	15.0	29.5	83.6
Total	\$113.8	\$119.8	\$105.3	\$122.2	\$461.1	\$117.9	\$132.1	\$145.5	\$161.1	\$556.6
In Millions	Q1'23	Q2'23	Q3'23	Q4'23	FY 2023	Q1'24	Q2'24	Q3'24	Q4'24	FY 2024
Royalty Revenue	\$28.2	\$40.7	\$28.9	\$52.4	\$150.1	\$47.5	\$56.4	\$64.1	\$58.2	\$226.2
Licensing Billings ¹	\$63.4	\$60.2	\$57.9	\$66.2	\$247.7	\$63.2	\$61.5	\$65.4	\$63.6	\$253.7
Delta	\$35.2	\$19.5	\$29.0	\$13.8	\$97.6	\$15.7	\$5.2	\$1.3	\$5.4	\$27.5
In Millions	Q1'23	Q2'23	Q3'23	Q4'23	FY 2023	Q1'24	Q2'24	Q3'24	Q4'24	FY 2024
ASC 606 Interest Income ²	\$0.9	\$0.6	\$0.4	\$0.2	\$2.2	\$0.2	\$0.1	\$0.2	\$0.0	\$0.5

¹ Licensing billings is an operational metric that reflects amounts invoiced to our patent and technology licensing customers during the period, as adjusted for certain differences relating to advanced payments for variable licensing agreements.

²Interest income associated with the significant financing component of licensing agreements as a result of the adoption of ASC 606.

GAAP to Non-GAAP Income Statement

	GAAP	Non-GAAP	Delta
In \$ Millions	Actual	Actual	to
	Q4'24	Q4'24	GAAP
Revenue	\$161.1	\$161.1	\$-
Cost of revenue	31.5	29.0	(2.5)
Research and development	43.7	39.2	(4.5)
Sales, general and administrative	28.0	20.9	(7.1)
Total operating cost and expenses	103.2	89.2	(14.1)
Operating income	57.9	71.9	14.1
Interest and other income (expense), net	4.4	4.4	0.0
Income before income taxes	62.3	76.4	14.1
Provision for income taxes ¹	0.1	16.8	16.7
Net income	\$62.2	\$59.6	(\$2.6)

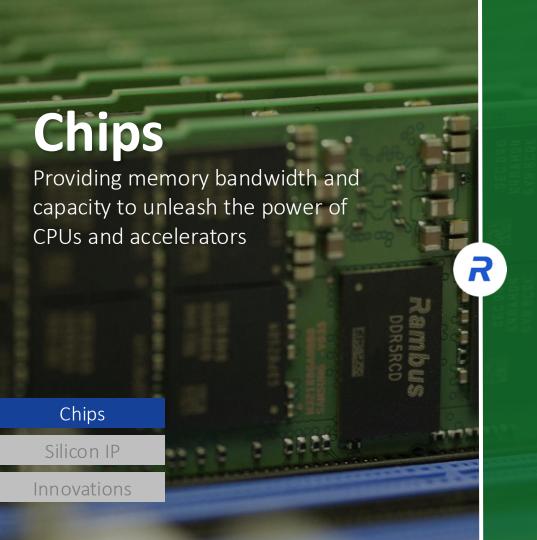


¹ Assumes a non-GAAP tax rate of 22%. Certain amounts may be off \$0.1M due to rounding.





Industry-leading Chips and Silicon IP





Memory Interface Chips

- DDR5 Server Chipset
- DDR5 Client Chipset
- DDR4 Server Chipset



CXL Memory Initiative

DDR5 RDIMM Chipset

Industry-leading Performance and Margin

- Compliant with latest JEDEC spec up to 8000 MT/s
- Wide margin IO design with advanced programmability
- Exceeds JEDEC reliability requirements

Optimized Power

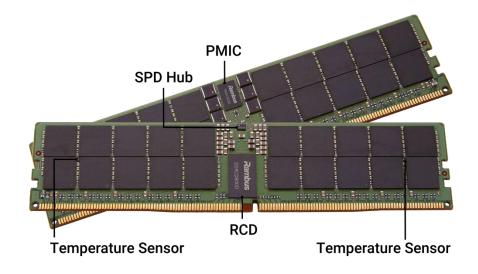
Frequency-based power optimization

Best-in-class Debug and Serviceability

- Integrated tools for bring-up and debug
- Works out of the box with default system BIOS

Use Cases

Server RDIMM 8000, 7200, 6400, 5600, 4800
 (RCD, PMIC, SPD Hub, Temp. Sensors x2)



DDR5 RDIMMs with Rambus Memory Interface chips: Registering Clock Driver, PMIC, SPD Hub and Temperature Sensor ICs

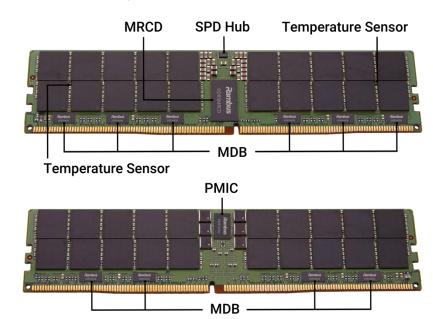
Industry-first DDR5 MRDIMM 12800 Chipset

Leading Performance

- Supports industry-standard MRDIMM at 12800 MT/s
- Full chipset solution, featuring:
 - Multiplexed Registering Clock Driver (MRCD)
 - Multiplexed Data Buffer (MDB)
 - PMIC5030
- Advanced clocking, control and power management
- Supports standard and tall (high capacity) form factors
- Common architecture with RDIMM 8000 to allow flexibility and scalability in server memory configuration
- Best-in-class reliability and serviceability

Use Case

 Server MRDIMM 12800 (MRCD, MDB x10, PMIC5030, SPD Hub, Temp. Sensors x2)

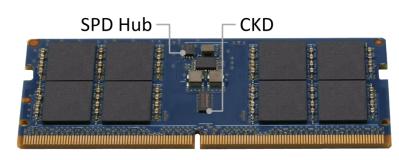


DDR5 MRDIMM 12800 Chipset: MRCD, MDB, PMIC, SPD Hub and Temperature Sensor ICs

Rambus Expands Industry-Leading Memory Interface Chip Offering to High-Performance PCs with DDR5 Client Clock Driver (CKD)

- Leverages Rambus broad server memory expertise to address the growing requirements of AI, gaming and content creation in desktop and notebook PCs
- New client product offering includes
 DDR5 Client Clock Driver and SPD Hub
- Enables state-of-the-art DDR5 client
 DIMMs with operation up to 7200 MT/s





DDR5 CSODIMM





Interface IP

- PCI Express
- CXL
- HBM
- GDDR



Security IP

- Root of Trust
- MACsec
- IPsec
- IME

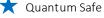
Interface IP: Memory Interface and Interconnect IP

		M	emory Co	ontroller	S		Interconnect Controllers					Video Compression	
	DDR	LPDDR	GDDR		нвм		C	XL	PCI Ex	cpress	MIPI	VESA	FEC
Application Focus	4	4X/5X/5T	6/7	2/2E	3/3E	4	2.0	3.1	6.2	7.0	CSI-2/ DSI-2	DSC/ VDC-M	DP/ HDMI
Data Center		R	R	R	R	R	R	R	R	R			
AI/Edge		R	R	R	R	R	R	R	R	R			
Automotive	R	R	R						R		R	® ★	R
Government & Defense	R								R				
loT		R									R	R	R
Availability	Now	Now	Now	Now	Now	Now	Now	Now	Now	Now	Now	Now	Now

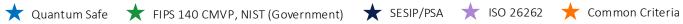
Security IP: Protecting Data at Rest, in Motion, and in Use

	Root of	f Trust	Network	Security	Cipher Engines	Crypto Cores		Provis	sioning
Application Focus	Programmable	Firmware Controlled	MACsec	IPsec TLS	IME	Crypto	TRNG	Infrastructure	Key Management
Data Center	? ★	N/A	R	R	R	⋒ ★	R [★]	R	R
AI/Edge	R * ★	R ★	R	R	R	R*	R [*]	R	R
Automotive	R *	R*	R	N/A	R	R	R	R	R
Government & Defense	? ★	R	R	R	R	≈ *	R ★	R	R
loT	N/A	? ★	N/A	R	N/A	⋒ ★	R*	R	R
Availability	Now	Now	Now	Now	Now	Now	Now	Now	Now





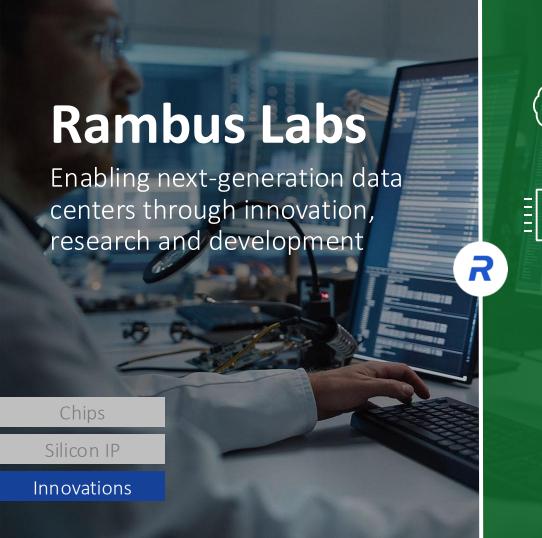












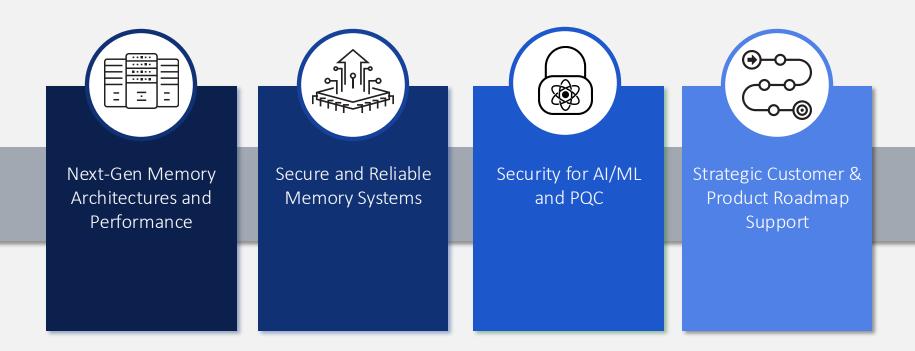


Next-Gen Memory

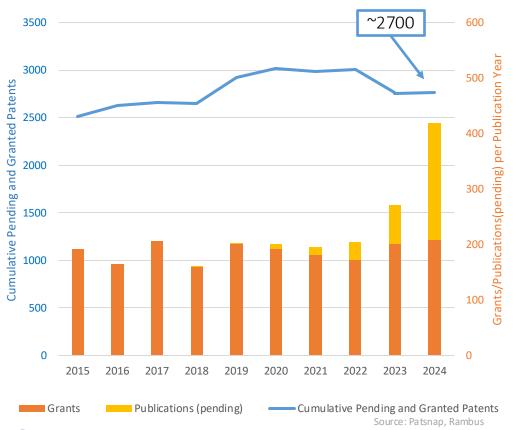


Post-Quantum
Computing Security

Key Areas of Focus for Rambus Labs



Rambus Patent Portfolio Overview



Industry Recognition of Rambus Patents



Source: Innography, patent citations

- Fundamental R&D feeds product development
- Relevant portfolio regularly cited by major industry players
- Supports predictable licensing base and sustained cash generation

