

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 supply chain and other 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.

Effective January 1, 2018, the Company adopted Accounting Standards Update No. 2014-09, Revenue from Contracts with Customers in ASC 606. The adoption of ASC 606 materially impacted the timing of revenue recognition for the Company's fixed-fee intellectual property licensing arrangements. The adoption of ASC 606 did not have a material impact on the Company's other revenue streams, net cash provided by operating activities, or its underlying financial position.

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 related to divestiture, amortization of acquired intangible assets, expense on abandoned operating leases, restructuring and other charges, provision for (benefit from) income taxes, change in fair value earn-out liability, loss on fair value adjustment of derivatives, 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 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. Reconciliation from GAAP to non-GAAP results are made available and more fully described on our website as well as the back of this deck and in the earnings release.



\$225M

2023 Product Revenue

\$196M

2023 Cash from Operations

GSA 2023

Most Respected Emerging

Semiconductor Company

\$100-500M Revenue

Industry-Leading
Chips and Silicon IP



>75% of Chip and Silicon IP Revenue

+42%

5-year CAGR Product Revenue

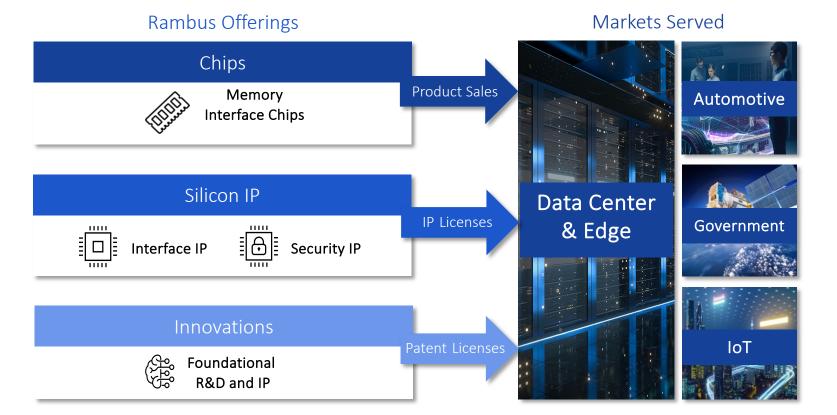
34 YearsTechnology Leadership

San Jose HQ Global Footprint ~600 Employees

>70% in Engineering

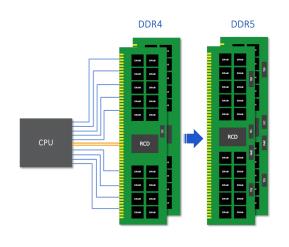
~2700
Patents and Patents Pending

Semiconductor Solutions Built on Innovation

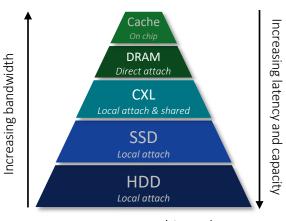


Amplified Opportunities in Data Center

Delivering higher performance with DDR5

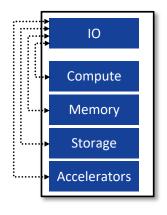


Bridging the latency & capacity gap with memory tiering



Server memory hierarchy

Improving efficiency with composable computing

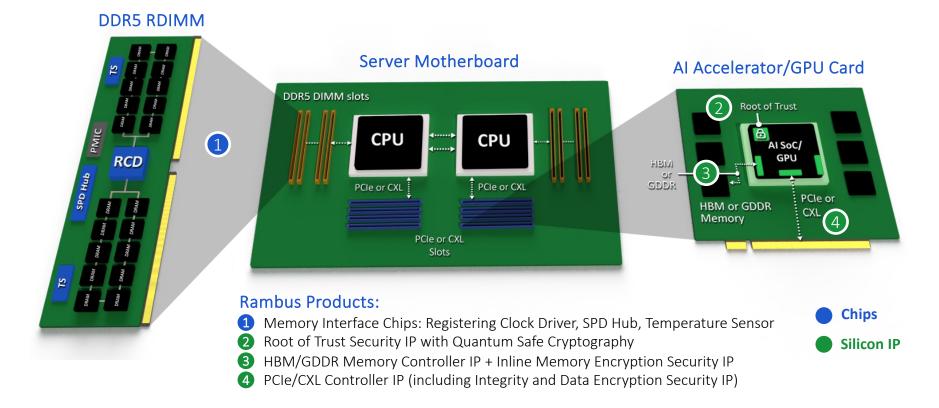


Composable

- resources: Compute
- Memory
- Storage
- Accelerators
- Shared Boot
- **Enhance Security**

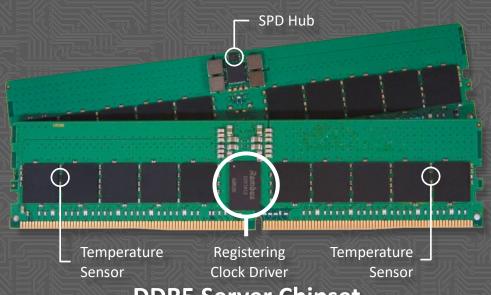
Increasing need for performance, delivered securely and reliably

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)

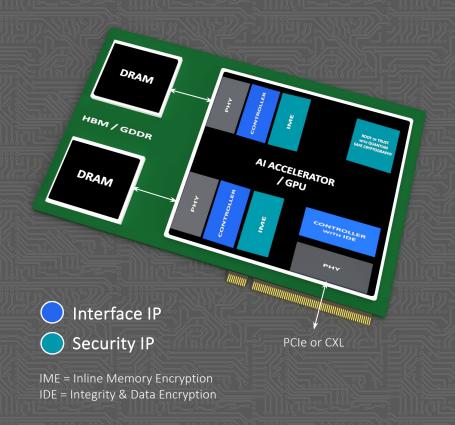
Industry-leading DDR5 RCDs

Gen1 4800 MT/s to Gen4 7200 MT/s

DDR5 companion chip portfolio:

- SPD Hub*
- Temperature Sensor

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 7200 MT/s for DDR5-based servers

Core Expertise

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

Innovation

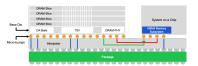
34 years of research and innovation in high-performance memory, high-speed interfaces, and hardware security

Foundation

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



DDR5 Memory Interface Chipset



HBM3E Memory Interface IP



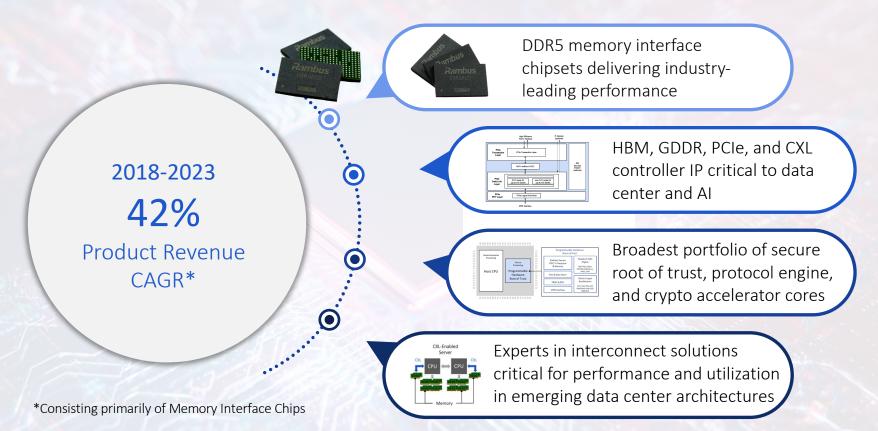
Smart Data Acceleration Engine



RDRAM Synchronous Memory

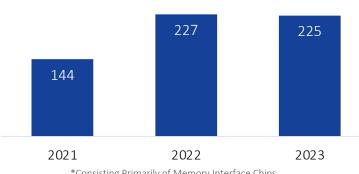


Product Leadership Driving Long-term Growth



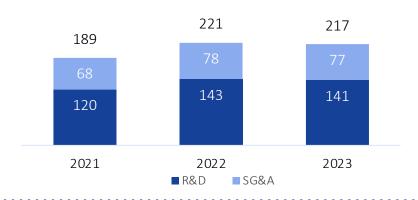
Financial Highlights



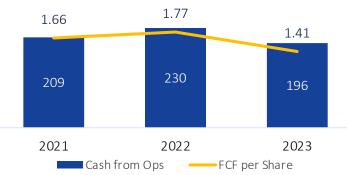


*Consisting Primarily of Memory Interface Chips

Pro Forma Operating Expenses (\$M)



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







Rambus Investment Summary



Amplified opportunity in data center as memory relevance accelerates fueled by AI



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

In Millions	<u>ASC 606</u> Q4 2022	<u>ASC 606</u> Q1 2023	<u>ASC 606</u> Q2 2023	<u>ASC 606</u> Q3 2023	<u>ASC 606</u> Q4 2023	
Revenue	\$122.4	\$113.8	\$119.8	\$105.3	\$122.2	Balanced portfolio drives growth
Total Operating Costs and Expenses ¹	\$85.4	\$86.3	\$75.7	\$72.9	\$71.9	Disciplined investment to support core growth initiatives
Operating Income ¹	\$36.9	\$27.5	\$44.1	\$32.4	\$50.3	Operating results under ASC 606 do not reflect significant cash flows from fixed-fee licensing arrangements
Cash from Operations	\$51.3	\$38.9	\$50.4	\$51.6	\$54.8	Solid 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 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	
Total Cash & Marketable Securities	\$313.2	\$292.1	\$332.6	\$375.5	\$425.8	Driven by continued strong cash from operations
Total Assets	\$1,012.6	\$962.6	\$1,127.1	\$1,184.3	\$1,256.1	Strong balance sheet and debt free
Stockholders' Equity	\$779.3	\$761.7	\$945.6	\$955.6	\$1,038.1	\$55M and \$68M contract assets in Q4 2023 and Q3 2023, respectively, related to ASC 606 adoption
Cash from Operations	\$51.3	\$38.9	\$50.4	\$51.6	\$54.8	Sustained, predictable cash generation



Reconciliation of Non-GAAP Financial Measures

Net Income (Loss) in Millions	Q4 2022 (ASC 606)	Q1 2023 (ASC 606)	Q2 2023 (ASC 606)	Q3 2023 (ASC 606)	Q4 2023 (ASC 606)
GAAP Net Income	\$16	\$3	\$169	\$103	\$59
Adjustments:					
Stock-based compensation	\$10	\$13	\$11	\$10	\$11
Acquisition/divestiture-related costs and retention bonus expense	\$1	\$1	\$0	\$0	\$0
Amortization of acquired intangible assets	\$4	\$4	\$4	\$4	\$3
Expense on abandoned operating leases	\$1	\$1	\$0	\$0	\$0
Provision for (benefit from) income taxes	(\$8)	(\$7)	(\$166)	(\$4)	(\$9)
Change in fair value of earn-out liability	\$5	\$7	\$7	(\$6)	\$1
Restructuring and other charges	\$0	\$0	\$9	\$0	\$0
Gain on divestiture	\$0	\$0	\$0	(\$91)	\$0
Impairment of assets	\$0	\$0	\$0	\$10	\$0
Gain on sale of equity investment	\$0	\$0	\$0	\$0	(\$24)
Non-GAAP Net Income	\$28	\$22	\$35	\$26	\$41
Operating Income in Millions	Q4 2022 (ASC 606)	Q1 2023 (ASC 606)	Q2 2023 (ASC 606)	Q3 2023 (ASC 606)	Q4 2023 (ASC 606)
Operating Income in Millions GAAP Operating Income	- 1				
	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)
GAAP Operating Income	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)	(ASC 606)
GAAP Operating Income Adjustments:	(ASC 606) \$16	(ASC 606) \$2	(ASC 606) \$12	(ASC 606) \$105	(ASC 606) \$35
GAAP Operating Income Adjustments: Stock-based compensation	\$16 \$10	\$2 \$13	\$12	(ASC 606) \$105 \$10	(ASC 606) \$35 \$11
GAAP Operating Income Adjustments: Stock-based compensation Acquisition-related/divestiture costs and retention bonus expense	\$16 \$10 \$1	\$2 \$13 \$1	\$12 \$11 \$0	\$105 \$105 \$10 \$0	\$35 \$11 \$0
GAAP Operating Income Adjustments: Stock-based compensation Acquisition-related/divestiture costs and retention bonus expense Amortization of acquired intangible assets	\$16 \$10 \$1 \$1 \$4	\$2 \$13 \$1 \$4	\$12 \$11 \$0 \$4	\$105 \$10 \$0 \$4	\$35 \$11 \$0 \$3
GAAP Operating Income Adjustments: Stock-based compensation Acquisition-related/divestiture costs and retention bonus expense Amortization of acquired intangible assets Expense on abandoned operating leases	\$16 \$10 \$1 \$4 \$1	\$2 \$13 \$1 \$4 \$1	\$12 \$11 \$0 \$4 \$0	\$105 \$10 \$0 \$4 \$0	\$35 \$11 \$0 \$3 \$0
GAAP Operating Income Adjustments: Stock-based compensation Acquisition-related/divestiture costs and retention bonus expense Amortization of acquired intangible assets Expense on abandoned operating leases Change in fair value of earn-out liability	\$16 \$10 \$1 \$4 \$1 \$5	\$2 \$13 \$1 \$4 \$1 \$7	\$12 \$11 \$0 \$4 \$0 \$7	\$105 \$10 \$0 \$4 \$0 (\$6)	\$35 \$11 \$0 \$3 \$0 \$1
GAAP Operating Income Adjustments: Stock-based compensation Acquisition-related/divestiture costs and retention bonus expense Amortization of acquired intangible assets Expense on abandoned operating leases Change in fair value of earn-out liability Restructuring and other charges	\$16 \$16 \$10 \$1 \$4 \$1 \$5 \$0	\$2 \$13 \$1 \$4 \$1 \$7 \$0	\$12 \$11 \$0 \$4 \$0 \$7 \$9	\$105 \$10 \$0 \$4 \$0 (\$6) \$0	\$35 \$11 \$0 \$3 \$0 \$1 \$0 \$3 \$0 \$1 \$0
GAAP Operating Income Adjustments: Stock-based compensation Acquisition-related/divestiture costs and retention bonus expense Amortization of acquired intangible assets Expense on abandoned operating leases Change in fair value of earn-out liability Restructuring and other charges Gain on divestiture	\$16 \$10 \$1 \$1 \$4 \$1 \$5 \$0 \$0	\$2 \$13 \$1 \$4 \$1 \$7 \$0 \$0	\$12 \$11 \$0 \$4 \$0 \$7 \$9 \$0	\$10 \$10 \$0 \$4 \$0 (\$6) \$0 (\$91)	\$35 \$11 \$0 \$3 \$0 \$1 \$0 \$1 \$0
GAAP Operating Income Adjustments: Stock-based compensation Acquisition-related/divestiture costs and retention bonus expense Amortization of acquired intangible assets Expense on abandoned operating leases Change in fair value of earn-out liability Restructuring and other charges Gain on divestiture Impairment of assets	\$16 \$10 \$1 \$1 \$4 \$1 \$5 \$0 \$0	\$2 \$13 \$1 \$4 \$1 \$7 \$0 \$0	\$11 \$0 \$4 \$0 \$7 \$9 \$0 \$0	\$105 \$105 \$10 \$0 \$4 \$0 \$6 \$0 \$9 \$10 \$10	\$35 \$11 \$0 \$3 \$0 \$1 \$0 \$0 \$0 \$0 \$0



^{*} Tables exclude the following items which round to \$0M: Non-cash interest expense, Facility restoration costs, and Severance costs.

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

Revenue and Licensing Billings

			ASC 606	5		ASC 606					
In Thousands	Q1'22	Q2'22	Q3'22	Q4'22	FY 2022	Q1'23	Q2'23	Q3'23	Q4'23	FY 2023	
Royalty Revenue	\$30,464	\$48,038	\$29,878	\$31,436	\$139,816	\$28,169	\$40,672	\$28,857	\$52,412	\$150,110	
Product Revenue	\$47,969	\$53,302	\$58,619	\$67,178	\$227,068	\$63,775	\$54,978	\$52,181	\$53,698	\$224,632	
Contract and Other Revenue	\$20,617	\$19,792	\$23,747	\$23,753	\$87,909	\$21,818	\$24,182	\$24,260	\$16,115	\$86,375	
Total	\$99,050	\$121,132	\$112,244	\$122,367	\$454,793	\$113,762	\$119,832	\$105,298	\$122,225	\$461,117	
In Thousands	Q1'22	Q2'22	Q3'22	Q4'22	FY 2022	Q1'23	Q2'23	Q3'23	Q4'23	FY 2023	
Royalty Revenue	\$30,464	\$48,038	\$29,878	\$31,436	\$139,816	\$28,169	\$40,672	\$28,857	\$52,412	\$150,110	
Licensing Billings ¹	\$64,102	\$66,104	\$62,156	\$64,328	\$256,690	\$63,405	\$60,175	\$57,906	\$66,245	\$247,731	
Delta	\$33,638	\$18,066	\$32,278	\$32,892	\$116,874	\$35,236	\$19,503	\$29,049	\$13,833	\$97,621	
In Thousands	Q1'22	Q2'22	Q3'22	Q4'22	FY 2022	Q1'23	Q2'23	Q3'23	Q4'23	FY 2023	
ASC 606 Interest Income ²	\$1,827	\$1,455	\$1,248	\$1,029	\$5,559	\$919	\$627	\$426	\$246	\$2,218	

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

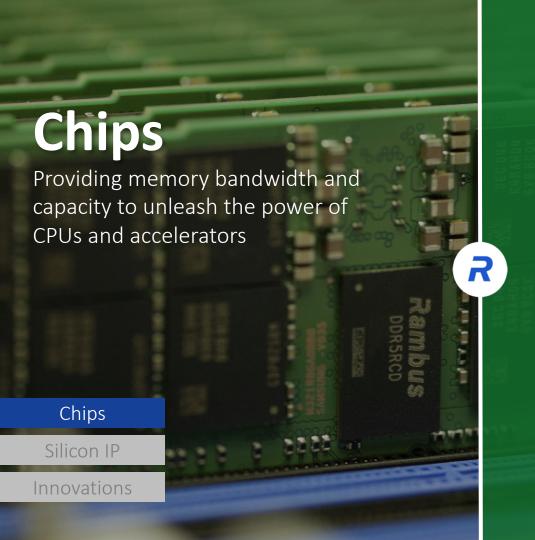
	GAAP	Non-GAAP	Delta
In \$ Millions	Actual	Actual	to
	Q4'23	Q4'23	GAAP
Revenue	\$122.2	\$122.2	\$-
Cost of revenue	24.1	20.9	(3.2)
Research and development	36.0	32.2	(3.7)
Sales, general and administrative	25.9	18.7	(7.1)
Change in fair value of earn-out liability	1.1	0.0	(1.1)
Total operating cost and expenses	87.1	71.9	(15.2)
Operating income	35.1	50.3	15.2
Interest and other income (expense), net	27.8	3.8	(23.9)
Income before income taxes	62.9	54.2	(8.7)
Provision for income taxes ¹	4.3	13.0	8.7
Net income	\$58.5	\$41.2	(\$17.4)

¹ Assumes a non-GAAP tax rate of 24%.





Industry-leading Chips and Silicon IP





Memory Interface Chips

- DDR5 Server Chipset
- DDR4 Server Chipset



CXL Memory Initiative

DDR5 DIMM Chipset

Industry-leading Performance and Margin

- Compliant with latest JEDEC spec up to 7200 MT/s
- Wide margin IO design with advanced programmability
- Exceeds JEDEC reliability requirements

Optimized Power

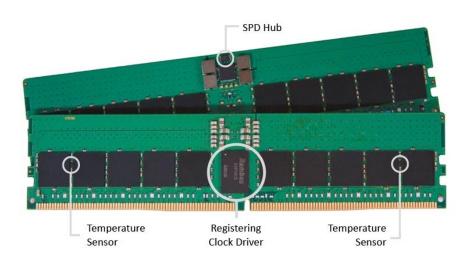
Frequency-based power optimization

Best-in-class Debug and Serviceability

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

Use Cases

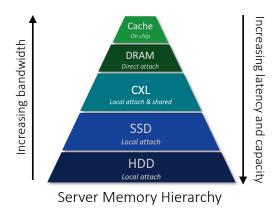
- Server (RCD, SPD Hub, Temp. Sensors): RDIMM
- Client (SPD Hub Only): UDIMM, SODIMM, CUDIMM, CSODIMM



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

CXL Memory Initiative

Bridging the Latency Gap with CXL



 Compute Express Link (CXL) enables a new tiered memory architecture that can bridge the latency and capacity gap

CXL Platform Development Kit (PDK)



- Enables prototyping and test of memory expansion and pooling solutions
- Interoperable with CXL 1.1/2.0 capable processors and memory
- Accelerates development of full stack of next-generation CXL-based solutions





Interface IP

- PCI Express
- CXL
- HBM
- GDDR



Security IP

- Root of Trust
- MACsec
- IPsec
- IME

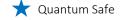
Interface IP: Memory Interface and Interconnect IP

	Memory Controllers					Interconnect Controllers					Video Compression	
	C	DR-Type	e	НВ	SM .	C	CXL PCI Express			MIPI	VESA	FEC
Application Focus	DDR	LPDDR	GDDR	2/2E	3/3E	2.0	3.1	5.0	6.1	CSI-2/ DSI-2	DSC/ VDC-M	DP/ HDMI
Data Center		R	R	R	R	R	R	R	R			
AI/Edge		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

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

	Root of	Root of Trust		Security	Cipher Engines	Crypto	Cores	Provis	ioning
Application Focus	Programmable	Firmware Controlled	MACsec	IPsec TLS	IME	Crypto	TRNG	Infrastructure	Key Management
Data Center	₽ *	N/A	R	R	R	₹	₽ *	R	R
AI/Edge	∂ *	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	R ★	N/A	R	N/A	® ★	₽ *	R	R
Availability	Now	Now	Now	Now	Now	Now	Now	Now	Now

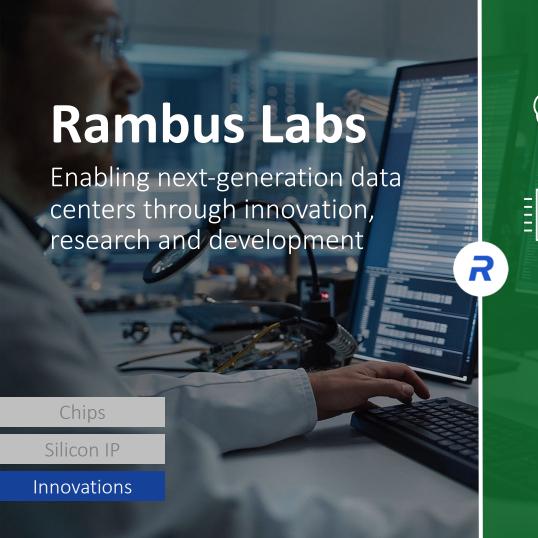














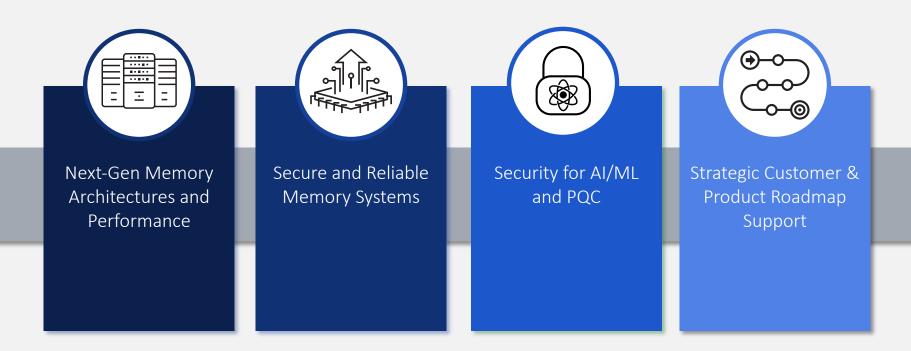
Next-Gen Memory



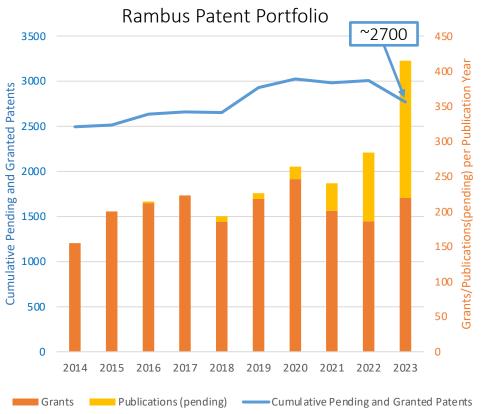
Post-Quantum

Computing Security

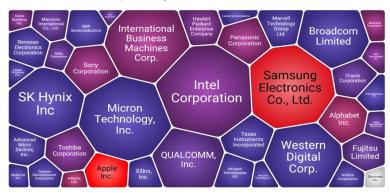
Key Areas of Focus for Rambus Labs



Innovating to Meet Market Needs



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

