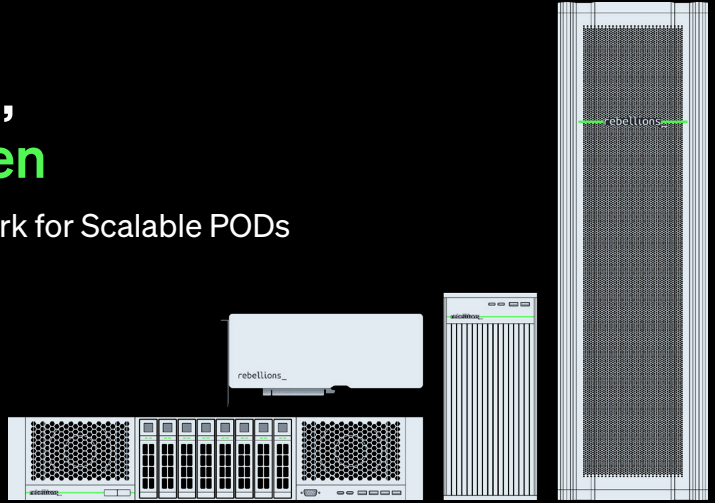


Start Lean, Scale Green

Modular Framework for Scalable PODs



Rebellions Scalable Design(RSD)

Rebellions Scalable Design (RSD) is the architectural foundation that empowers the seamless and flexible support for LLMs across a wide range of sizes. From inter-chip connections to multi-card configurations, servers, and even rack-level datacenter deployments, RSD provides a scalable, energy-efficient, and highly capable solution to cater to all requirements.

Key Benefits



Scalability

Scale out from a single chip to multiple racks effortlessly with RSD's modular architecture.

Flexibility

RSD boasts exceptional flexibility, made possible by our highly configurable chip and the versatile RBLN Compiler. Our cutting-edge technology not only supports a wide range of models but also incorporates the latest advancements like RAG.

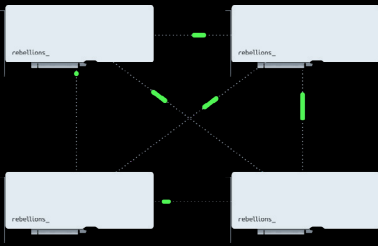


Efficiency

Our lightweight, powerful chip includes only the essential components for inference. It incorporates a memory architecture that not only maximizes efficiency but also maintains superior performance.

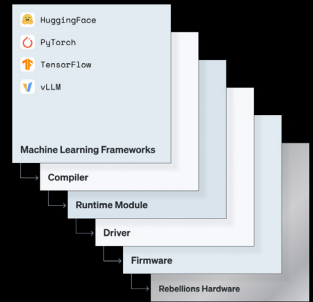
Specification	Server	Rack
NPU	16 x ATOM™	224 x ATOM™
TFLOPS (FP16)	512	7,168
TOPS (INT8)	2,048	28,672
Memory (GDDR6)	256GB	3.5TB
Memory Bandwidth	4TB/s	56TB/s
SRAM	1GB	14GB
TDP	2.5kW	35kW
OS	Ubuntu Linux, RHEL & Rocky Linux	Ubuntu Linux, RHEL & Rocky Linux
Cloud Support	Kubernetes, OpenStack	Kubernetes, OpenStack

Key Features



Parallel Computing

By strategically partitioning the computational workload at the tensor level, RSD achieves efficient parallel computing and ensures minimal latency.



Software Stack

Rebellions Software Stack is designed to optimize hardware performance to its fullest potential. RBLN SDK effortlessly integrates with popular industry models, prioritizing seamless integration and user-friendly experiences.

Flexible Deployment

A one-stop solution for quick deployment, RSD comes pre-configured and ready to use based on your specific requirements. Whether you need to launch your project as soon as possible or expand your business in the future, RSD's flexibility allows for a swift time-to-market and effortless scalability.



Discover More
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