

DEMOCRATIZING STEM EDUCATION POPULARIZING QUANTUM COMPUTING

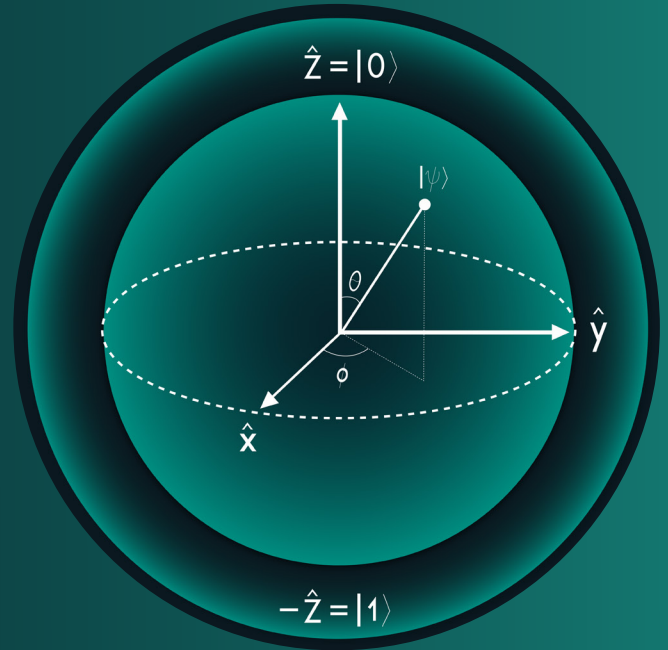


Triangulum Mini

Portable NMR (Nuclear Magnetic Resonance) Quantum Computer

| 3 Qubits |

NMR Triangulum Mini quantum computer, 3 qubits, provides a comprehensive solution for quantum computing education. The device is a real quantum computer based on NMR technology. It is supported by the customized quantum algorithm and circuit design. It can execute 3 qubits of complex quantum algorithms, such as the Quantum Fourier Transform and Grover search algorithm.



- Real quantum computer based on NMR system instead of quantum simulator
- Use independent QPU to minimize waiting time for tasks in the queue for execution
- Specific energy level, measurement and control system supports operations of up to 30 single-qubit and 10 two-qubit quantum logic gates
- Open quantum computing process and results help users understand how quantum computers work and acquire programming knowledge
- Lightweight and portable for diverse applications
- Ready to use after turned on and save waiting time

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Open computing process and results help users acquire quantum computing and programming knowledge.



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Specifications :



		Standard
Measurement and Control System of Qubits	Number of Qubits	3
	Coherence Time	40ms
	Single-Qubit Gate Fidelity	0.98
	Two-Qubit Gate Fidelity	0.96
	Single-Qubit Gate Operation	~20
	Two-Qubit Gate Operation	~6
	NMR-Frequency(1H)	27.0 ± 1 MHz
	NMR-Frequency(31P)	-
	NMR-Frequency(19F)	25.5 ± 1MHz
	Number of RF Channels	2
	Pulse Resolution	100ns
	90° Pulse Width	~10us
	Phase Resolution	0.1°
	NMR Signal Resolution(FWHM)	~40Hz
Magnet	Magnet Type	NdFeB permanent magnet
	Magnetic Density	0.65Tesla ±5%
	Stray Field(distance of the 0.5mT(5G)) line from the magnetic center)	<0.5m
	Magnet Operation Temperature Range	0~40 C
	Magnet Operation Temperature Precision	-
	Magnet Field Lock Precision	0.1ppm
Operating Software and Function	Operating System	Android
	Built-in Introduction of Quantum Computing	Yes
	Number of Built-in Demonstration Algorithms	>18
	Custom Algorithms	Yes
	Support SpinQKit	Yes
	Support Main-secondary System	No
	Support Data on Cloud	No
HardWare	Mains Power Rating	100~240V AC; 50/60Hz; Single Phase
	Power Dissipation	~60W
	Size(H*W*D)	200*350*260mm
	Weight	16Kg



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