SPINQ

SPINQ 量旋科技
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Gemini

Desktop NMR Quantum Computer

2 Qubits

Specifications:

Measurement and Control System of Qubits	Qubits		2
	Coherence Time	T1	12s
		T2	350ms
	Single-Qubit Gate Fidelity		0.996
	Multi-Qubit Gate Fidelity		0.993
	Single-Qubit Gate Operation		~100
	Multi-Qubit Gate Operation		~50
	NMR-Frequency（−H / −P / −F）		36.0 ± 1 MHz / 15.9 ± 0.5 MHz / 33.9 ± 1 MHz
	Pulse Resolution		10ns
	90° Pulse Width		~20us
	Phase Resolution		0.01°
	Spectral Resolution (H Frequency)		~36Hz/1.0ppm
Magnet	Magnet Type		NdFeB permanent magnet
	Magnetic Density		0.85Tesla ±5%
	Stray Field		<0.5m
	Magnet Operation Temperature Range		0~40°C
Operating Software and Function	Operating System		windows 10
	Operating Method		Peripheral
	Built-in Introduction of Quantum Computing		Yes
	Number of Built-in Demostration Algorithms		24
	Spin Dynamics Experiments		Support some experiments
	Experimental Demonstration		>14
	Custom Quantum Circuit Function		Yes
	Auto Calibration		Yes
	Support SpinQit（Quantum Programming Framework）		Yes
	Multi-User Operation		Yes
	Support local Storage		Yes
HardWare	Mains Power Rating		100~240V AC；50/60Hz；Single Phase
	Power Dissipation		100W
	Size(H*W*D)		600*280*530mm
	Weight		44Kg