Gemini Mini

Portable NMR Quantum Computer

| 2 Qubits |

Specifications:

parameter type			Gemini Mini	Gemini Mini Pro
Measurement and Control System of Qubits	Qubits		2	
	Coherence Time	T1	8s	10s
		T2	200ms	300s
	Single-Qubit Gate Fidelity		0.99	0.996
	Multi-Qubit Gate Fidelity		0.98	0.993
	Single-Qubit Gate Operation		40	80
	Multi-Qubit Gate Operation		10	40
	NMR-Frequency（−H / −P / −F）		$27.0 \pm 1\,MHz$ / $11.0 \pm 0.5\,MHz$ / $25.5 \pm 1\,MHz$	
	Pulse Resolution		100ns	10ns
	90° Pulse Width		~50us	
	Phase Resolution		0.1°	0.01°
	Spectral Resolution (H Frequency)		~50Hz/1.8ppm	~32Hz/1.2ppm
Magnet	Magnet Type		NdFeB permanent magnet	
	Magnetic Density		0.65Tesla $\pm$5%	
	Stray Field		<0.5m	
	Magnet Operation Temperature Range		0~40℃	
Operating Software and Function	Operating System		Android	
	Operating Method		touch pannel	
	Built-in Introduction of Quantum Computing		Yes	
	Number of Built-in Demostration Algorithms		8	
	Spin Dynamics Experiments		Support some experiments	
	Experimental Demonstration		>14	
	Custom Quantum Circuit Function		Yes	
	Auto Calibration		Yes	
	Support SpinQit（Quantum Programming Framework）		No	Yes
	Cloud Data server		No	Yes
	Support Screen Mirroring		Optional	
HardWare	Mains Power Rating		100~240V AC；50/60Hz；Single Phase	
	Power Dissipation		60W	
	Size(H*W*D)		200*350*260mm	
	Weight		14Kg	