SPINQ

SPINQ 量旋科技
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Gemini

Desktop NMR Quantum Computer

2 Qubits

Specifications :

		Standard
System	Coherence Time	⩾ 20 ms
	Single-qubit Gate Operation	⩾ 200 gates
	Two-qubit Gate Operation	⩾ 20 gates
	NMR-frequency (^{1}H)	41.3 ± 2.0 MHz
	Number of RF channels	2
	Pules Resolution	⩽ 100 ns
	90° Pulse Width	⩽ 30 μs
	Phase Resolution	⩽ 0.1°
	Receiver Dynamic Range	−114 ~ −60 dBm
	Digital Converter	500 MS/s, 8 Bit
	Sample tube Diameter (Built-in, no need to change)	5 mm
	NMR signal peak Resolution (FWHM)	⩽ 20Hz (H_2O)
		⩽ 41.3Hz (Experimental Sample)
Magnet	Type	Permanent Magnet
	Operating Field	0.97 Tesla ± 5%
	Stray Field (distance of the 0.5mT (5G) line from the magnetic center)	⩽ 0.5 m
	Magnet Operating Temperature Range	33 ~ 37 ℃
	Magnet Operating Temperature Precision	0.01℃
Operating Software	Built-in Introduction of Quantum Computing	Yes
	Number of Built-in Demonstration Algorithms	⩾ 6
	Custom Algorithms	Yes
Mains Power Rating		100 ~ 240V AC ; 50Hz/60Hz ; Single Phase
Power Dissipation		~ 100 W

* Specifications subject to change without notice

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