



Gemini[★][★]

Desktop NMR Quantum Computer

| 2 Qubits |



Specifications:

		Standard
Measurement and Control System of Qubits	Number of Qubits	2
	Coherence Time	300ms
	Single-Qubit Gate Fidelity	0.996
	Two-Qubit Gate Fidelity	0.993
	Single-Qubit Gate Operation	~100
	Two-Qubit Gate Operation	~50
	NMR-Frequency(¹ H)	41.5 ± 1 MHz
	NMR-Frequency(³¹ P)	17.0 ± 0.5 MHz
	NMR-Frequency(¹⁹ F)	39 ± 1MHz
	Number of RF Channels	2
	Pulse Resolution	10ns
	90° Pulse Width	~20us
	Phase Resolution	0.01°
	NMR Signal Resolution(FWHM)	~30Hz
Magnet	Magnet Type	NdFeB permanent magnet
	Magnetic Density	1.0Tesla ±5%
	Stray Field(distance of the 0.5mT(5G)) line from the magnetic center)	<0.5m
	Magnet Operation Temperature Range	0~35°C
	Magnet Operation Temperature Precision	0.001°C
	Magnet Field Lock Precision	0.1ppm
Operating Software and Function	Operating System	Windows 10
	Built-in Introduction of Quantum Computing	Yes
	Number of Built-in Demonstration Algorithms	>18
	Custom Algorithms	Yes
	Support SpinQKit	Yes
	Support Master-slave System	Yes
	Support Data on Cloud	No
HardWare	Mains Power Rating	100~240V AC; 50/60Hz; Single Phase
	Power Dissipation	~100W
	Size(H*W*D)	600*280*530mm
	Weight	44Kg

* Specifications subject to change without notice