

M.2 2280 NVMe SSD

JUHOR JXX XXXGB NVMe M.2

V1.0

（JUHOR）玖合

Embedded
Storage
Solutions

M.2 2280 NVMe SSD 固态硬盘

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产品概述

- 容量：128GB/256GB/512GB/1TB/2TB
- 接口协议：NVMe 1.3
- 输入电压：DC 3.3V ±5%
- 工作温度：0℃~70℃；存储温度：-40℃~85℃

JUHOR 玖合		深圳市玖合精工科技有限公司				
项目	产品型号	JUHOR JXX XXXGB NVMe M.2				
概述	外形尺寸	M.2(长 80.0mm)*(宽 22.0mm)*(高 2.1mm),误差±0.1mm				
	接口协议	NVMe 1.3 协议，向下兼容 NVMe 1.1				
	支持的系统	Windows 7,Windows 8.1,Windows 2003 Windows 2008 Windows 10,Windows 11, DOS, Linux,Unix				
性能	容量	128GB	256GB	512GB	1TB	2TB
	NAND 闪存	3D NAND	3D NAND	3D NAND	3D NAND	3D NAND
	读取速度(MB/s)	1500~1800	1700~2200	2400~2600	3000~3500	3000~3500
	写入速度(MB/s)	1000~1200	1300~1500	2000~2200	2800~3000	2800~3000
电气特性	输入电压	DC 3.3V±5%				
可靠性与稳定性	读寿命	无限				
	数据保存	在 25 度下可以存放 10 年以上				
	平均故障间隔时间	150 万小时				
	错误检查与纠错	支持错误检查和纠正机制				
	电源管理	支持电源管理和智能管理技术				
环境	工作温度	0℃~70℃				
	存放温度	-40℃~85℃				
保修时间	3 年保修					
认证	CE,ROHS,FCC,REACH					
量产状况	已量产	NO EOL(无停产计划)				
注：不同测试平台和测试软件，性能指标参数会有所不同，以上仅供参考						

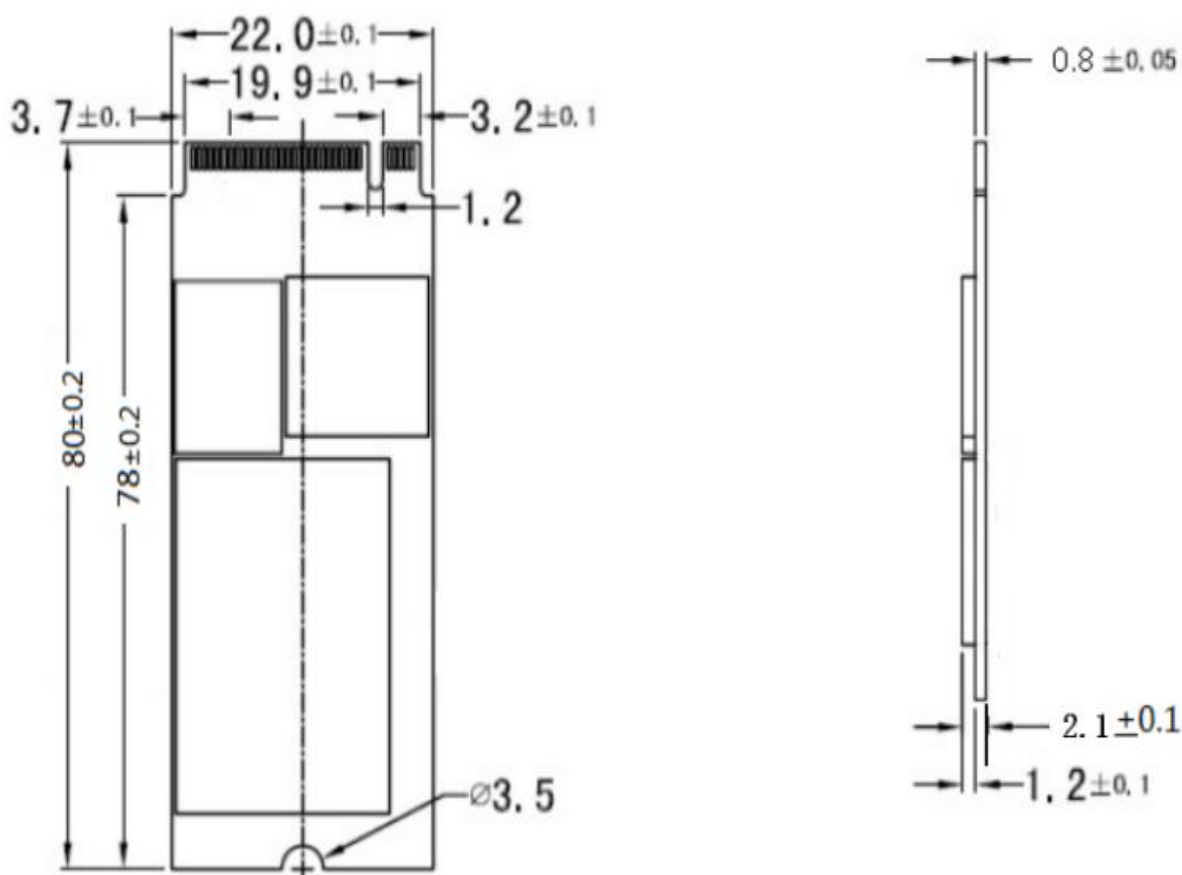
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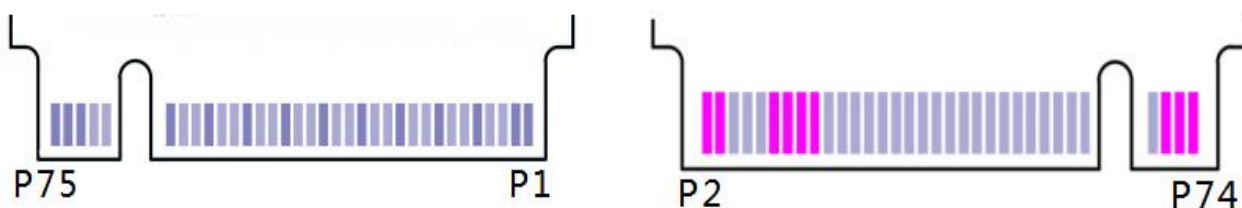
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Dimensions (Unit: millimeter)

长 80.0mm * 宽 22.0mm * 高 2.1mm, 误差 ± 0.1 mm (如下图)



Note:1. Tolerances on all dimensions ± 0.1 mm unless otherwise specified.



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	引脚定义	引脚	引脚定义
1	GND	2	DC 3.3V
3	GND	4	DC 3.3V
5	PETn3	6	/
7	PETp3	8	/
9	GND	10	DAS
11	PERn3	12	DC 3.3V
13	PERp3	14	DC 3.3V
15	GND	16	DC 3.3V
17	PETn2	18	DC 3.3V
19	PETp2	20	/
21	GND	22	/
23	PERn2	24	/
25	PERp2	26	/
27	GND	28	/
29	PETn1	30	/
31	PETp1	32	/
33	GND	34	/
35	PERn1	36	/
37	PERp1	38	/
39	GND	40	/
41	PETn0	42	/
43	PETp0	44	/
45	GND	46	/
47	PERn0	48	/
49	PERp0	50	PERSTn
51	GND	52	CLKREQn
53	REFCLKn	54	/
55	REFCLKp	56	UART
57	GND	58	UART
Module Key			
67	/	68	/
69	/	70	DC 3.3V
71	GND	72	DC 3.3V
73	GND	74	DC 3.3V
75	GND		

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Test Data, only for reference

NO.	Test Items	Test Content And Result																		
1	Product Information	Controller	SM2263XT, YS1602	Nand flash	INTEL, MIRCON, SKHYNIX,															
		Interface	PCIe Gen3*4	Capacity	1TB															
		Form factor	M.2 2280	Firmware Version	---															
2	Basic Function	SSD information detection	PASS	Hot boot	PASS															
		SSD feature support	PASS	Cold boot	PASS															
		System Disk Test	PASS	Sleep	PASS															
3	Data Matching	4GB file R/W	PASS	Multi-level folder R/W	PASS															
		4KB file R/W	PASS	Full Disk R/W	PASS															
		Test Platform																		
		CPU: Intel i5-11500		Mother-Board: MSI B560																
		Cache: DDR4 32GB		OS.: Windows 10 64Bit;																
		MTBF More Than 1500000 Hours																		
		CrystalDiskMark 8.0.4 x64 [Admin] 文件(F) 设置(S) 显示状态(P) 主键(T) 帮助(H) 语言(L)(Language) All51GiB D: 0% (0/954GiB) MB/s Read (MB/s) Write (MB/s) SEQ1M Q8T13333.662942.80 SEQ1M Q1T12057.482616.28 RND4K Q32T1779.89684.44 RND4K Q1T179.07243.92 Table 4: TBW and Daily Usage Guideline results <table><tr><th>Capacity</th><th>TBW</th><th>Daily Usage Guideline</th></tr><tr><td>120GB/128GB</td><td>50TB</td><td>45GB/day</td></tr><tr><td>240GB/256GB</td><td>100TB</td><td>90GB/day</td></tr><tr><td>480GB/512GB</td><td>200TB</td><td>180GB/day</td></tr><tr><td>960GB/1TB</td><td>400TB</td><td>360GB/day</td></tr></table> TBW: Total Bytes Written Definition and conditions of TBW are based on JEDEC standard Daily usage guidelines value is calculated by dividing TBW by 365*3				Capacity	TBW	Daily Usage Guideline	120GB/128GB	50TB	45GB/day	240GB/256GB	100TB	90GB/day	480GB/512GB	200TB	180GB/day	960GB/1TB	400TB	360GB/day
Capacity	TBW	Daily Usage Guideline																		
120GB/128GB	50TB	45GB/day																		
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480GB/512GB	200TB	180GB/day																		
960GB/1TB	400TB	360GB/day																		
		JUHOR 1TB PCIe 3.0x4 P/N:J3500 NVMe M.2 SSD RATE:DC+3.3V 1A ASSEMBLED IN CHINA 69XXXXXXXXXX S/NXXXXXXXXXX RoHS FC CE eULus Warranty Void If Removed																		

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		IOMeter v1.1.0					
		4KB 100% Ran Read (iops)			4KB 100% Ran Write (iops)		
		289065			236065		
5	Reliability Testing	Detection items			cycles	Detection results	
		Power Cycle			3000 cycles	PASS	
		Sleep/Wake -S3			3000 cycles	PASS	
		Sleep/Wake -S4+BIT			3000 cycles	PASS	
		Reboot			3000 cycles	PASS	
6	Protocol Testing	Detection items				Detection result	
		ATACT				PASS	
		AHCCTDT				PASS	
		AHCNCQT				PASS	
7	Consistency Test of Signal	RX Jitter Tolerance Test (RSG)				PASS	
		TX QualiPHY Test (TSG)				PASS	
		Eye Diagram Test				PASS	
8	Burn-in Test	Burn-in items			time	Detection result	
		70℃ RDT Test			72H	PASS	
		ordinary temperature Data Disk BIT			72H	PASS	
		ordinary temperature Boot Running			72H	PASS	
		ordinary temperature Sleep/Wake			24H	PASS	
9	Data Retention	Check data-comparison again under a 4hrs 80℃ circumstances after running a complete H2 test			4H	PASS	
10	S.M.A.R.T	Detection items				Detection result	
		Check S.M.A.R.T if warning information exists				PASS	
		Check S.M.A.R.T if main parameter is ascending regularly				PASS	
11	Power Consumption (voltage:3.3V)	Cap.	Seq.Read(mW)	Seq.Write(mW)	4K Ran.Read(mW)	4K Ran.Write(mW)	Idle(mW)
		1TB	1081	1049	1020	1109	12
Test Platform		Win10 system is the main test platform, compatible with win8 / Linux platform					

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