

Hugsun 海格森科技有限公司					
基本配置					
产品型号	S1A-BM1688	主控型号	BM1688	测试日期	2025/8/18-2025/8/19
硬件版本	S1A-BM1688		存储配置	DDR: 2G/EMMC: 16G	
操作系统	Ubuntu 22.04.5 LTS	测试固件	S1A-BM1688-8G		
执行命令	串口工具运行压测脚本，接网线ssh查看cpu温度				
执行开始时间：2025/8/18 18:00 记录数据时间：2025/8/19 18:00 持续测试时间：24小时 环境温度：60° C CPU温度：73° C 测试项目：CPU满载 测试结果：PASS DDR：free -h EMMC：df -h 测试命令： CPU温度： cat /sys/class/thermal/thermal_zone*/temp 压测（linux系统）： 串口连接后联网执行以下命令 sudo apt update sudo apt install stress stress --cpu 4 --io 4 --vm 4 --vm-bytes 128M 安卓：安装Stability Test.apk运行压测48H, 确认系统正常运行 安卓系统运行性能老化： 安装StabilityTest 2.7运行CLASSIC STABILITY TEST 老化24h后在adb输入：cat /sys/class/thermal/thermal_zone*/temp查看CPU核心温度					
高温老化时间段		2025/8/18-2025/8/19			
顶壳表面温度		65.2° C		底壳表面温度	63.4° C
CPU核心温度		73° C			

测试截图

查看内存：

```
root@sophon:~# free -h
              total        used        free      shared  buff/cache   available
Mem:           2.0Gi         841Mi         808Mi         2.0Mi         410Mi         1.0Gi
Swap:              0B              0B              0B
```

EMMC：

```
root@sophon:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
overlay          8.7G   7.8G   558M   94% /
tmpfs            1.1G     0    1.1G    0% /dev/shm
tmpfs            413M   3.0M   410M    1% /run
tmpfs            5.0M     0    5.0M    0% /run/lock
/dev/mmcblk0p1  128M   20M   109M   15% /boot
/dev/mmcblk0p6   17G   216M   16G    2% /data
/dev/mmcblk0p4   2.9G   2.6G   125M   96% /media/root-ro
/dev/mmcblk0p5   8.7G   7.8G   558M   94% /media/root-rw
/dev/mmcblk0p2  108M   20M   84M   20% /recovery
tmpfs            207M     0   207M    0% /run/user/1000
```

压测运行截图：

```

root@sophon:~# sudo apt update
Hit:1 http://ports.ubuntu.com/ubuntu-ports jammy InRelease
Get:2 http://ports.ubuntu.com/ubuntu-ports jammy-updates InRelease [128 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports jammy-security InRelease [129 kB]
Get:4 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 Packages [2589 kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports jammy-updates/main Translation-en [443 kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports jammy-security/main arm64 Packages [2350 kB]
Get:7 http://ports.ubuntu.com/ubuntu-ports jammy-security/main Translation-en [380 kB]
Fetched 6020 kB in 6s (1072 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
133 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@sophon:~# sudo apt install stress -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  stress
0 upgraded, 1 newly installed, 0 to remove and 133 not upgraded.
Need to get 18.2 kB of archives.
After this operation, 47.1 kB of additional disk space will be used.
Get:1 http://ports.ubuntu.com/ubuntu-ports jammy/universe arm64 stress arm64 1.0.5-1 [18.2 k
Fetched 18.2 kB in 2s (12.1 kB/s)
Selecting previously unselected package stress.
(Reading database ... 92234 files and directories currently installed.)
Preparing to unpack .../stress_1.0.5-1_arm64.deb ...
Unpacking stress (1.0.5-1) ...
Setting up stress (1.0.5-1) ...
root@sophon:~# stress --cpu 4 --io 4 --vm 4 --vm-bytes 128M
stress: info: [111266] dispatching hogs: 4 cpu, 4 io, 4 vm, 0 hdd

```

CPU温度:

```

linaro@sophon:~$ cat /sys/class/thermal/thermal_zone*/temp
73377
linaro@sophon:~$ cat /sys/class/thermal/thermal_zone*/temp
73377
linaro@sophon:~$ cat /sys/class/thermal/thermal_zone*/temp
72969
linaro@sophon:~$ cat /sys/class/thermal/thermal_zone*/temp
72969
linaro@sophon:~$ cat /sys/class/thermal/thermal_zone*/temp
73377
linaro@sophon:~$ cat /sys/class/thermal/thermal_zone*/temp
73377

```

整机顶部和底部表面温度温度:





高温环境：



高温箱温度：

