



Samsung SSD 860 EVO mSATA 250GB S41MNG0K900909R  
250 GB

SATA 3

Case ID:  
Not assigned

Creation date: 06/28/2023 6:01 PM

Software version: 2023.6

TaskForce serial: 48484848

TaskForce IP: 10.0.0.166

Location: SATA 3

Write protection: On

Device model: Samsung SSD 860 EVO mSATA 250GB

Device serial: S41MNG0K900909R

Size: 250 GB (250,059,350,016 bytes)

Device firmware: RVT41B6Q

Case investigator:

Case description:

## Diagnostics completed

### Results

No major hardware or firmware issues found

94% of the disk is not associated with any partition.

Estimated imaging time: 7 minutes

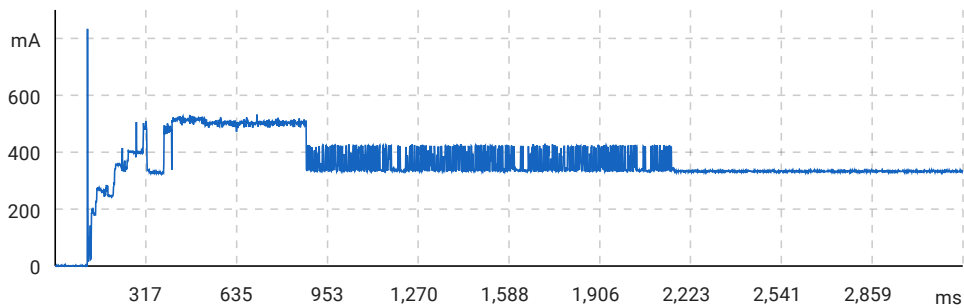
### 1. Circuit board

Device is powered on. A power cycle is needed...

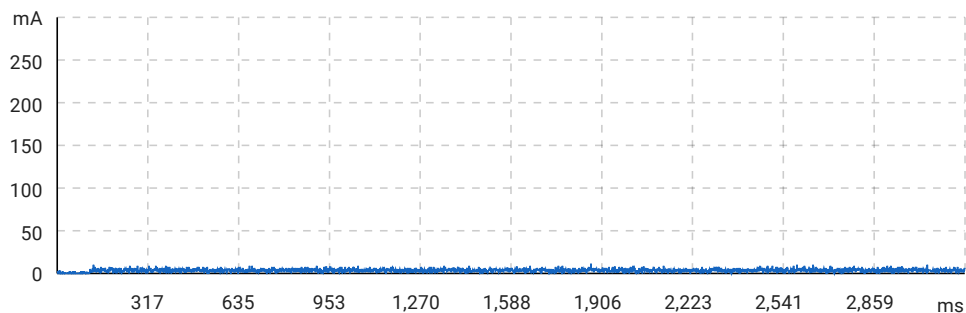
Powering down the device...

Applying power and watching currents...

#### Current oscillogram (5V):



#### Current oscillogram (12V):



Device has become ready in 3 sec

Registers. Status: 01010000 Error: 00000001

Peak power consumption during power-up: 5V line = 833.56 mA; 12V line = 11.40 mA

Integrity word of device identification data is OK.

Device identified: Samsung SSD 860 EVO mSATA 250GB SN: S41MNG0K900909R

Logical sector size: 512 bytes. Physical sector size: 512 bytes

**Circuit board check passed**

Elapsed: 12.4 sec.

## 2. Heads

**Solid state drives (SSD) don't have heads.**

Elapsed: 0.0 sec.

## 3. Media scan

Media scan is in progress...

Verifying starting sectors (LBA: 0 - 999,999)

0 error(s) found

Speed: 554 MB/s

Verifying middle sectors (LBA: 244,198,583 - 245,198,582)

0 error(s) found

Speed: 555 MB/s

Verifying ending sectors (LBA: 487,397,168 - 488,397,167)

0 error(s) found

Speed: 554 MB/s

Average speed: 554 MB/s

**Media scan check passed**

Elapsed: 2.8 sec.

## 4. Firmware

Device is not locked.

Device identification data is valid.

Max address according to device ID: 488,397,167

Native max address (ext): 488,397,167

Max Address from DCO: 488,397,167.

Reported capacity appears logically correct.

Performing SMART checks...

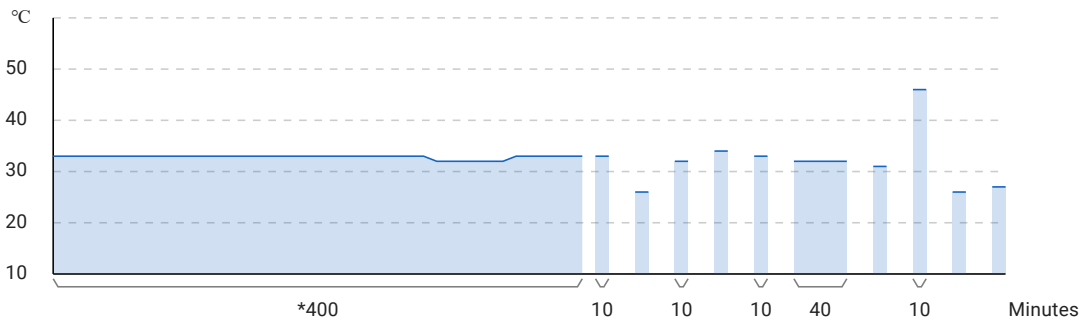
Power cycles: 220 Smart status: Good Powered on: 4 days 5 hours

#	Attribute Name	Value	Worst	Threshold	RAW	Status
5	Reallocated Sector Ct	100	100	10	0	OK
9	Power On Hours	99	99	0	101	OK
12	Power Cycle Count	99	99	0	220	OK
177	Wear Leveling Count	99	99	0	8	OK
179	Used Rsvd Blk Cnt Tot	100	100	10	0	OK
181	Program Fail Cnt Total	100	100	10	0	OK
182	Erase Fail Count Total	100	100	10	0	OK
183	Runtime Bad Block	100	100	10	0	OK
187	Reported Uncorrectable	100	100	0	0	OK
190	Airflow Temperature Cel	72	24	0	28	OK
195	Hardware ECC Recovered	200	200	0	0	OK
199	UDMA CRC Error Count	99	99	0	799	OK
235	POR Recovery Count	99	99	0	30	OK
241	Total LBAs Written	99	99	0	3310140590	OK

Reading SMART temperature...

### Temperature and power cycle history

The diagram shows the device temperature history during the recent work time intervals between power cycles.



\* Earliest available record. The exact time and duration is unspecified in SMART history.

White gaps represent the interval between temperature measurements. During these periods the temperature sensor was inoperative for periods of time due to power off or standby mode.

Last significant work time interval before power off or standby (in minutes): 40

**Firmware check passed**

Elapsed: 0.0 sec.

## 5. File system

Found partition at sector 2,048 (type NTFS). Label: System Reserved. Partition size: 367 MB.

Found partition at sector 718,848 (type NTFS). Label: (empty). Partition size: 14 GB.

**94% of the disk is not associated with any partition.**

**File system structures check complete.**

Elapsed: 0.1 sec.