



# Storm Interface EZKV06 NavPad Enabled Keypads Instruction Manual

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Storm Interface EZKV06 NavPad Enabled Keypads



## Specifications

- Product Name: NavPad Downloader Utility
- Version: Rev 1.0
- Manufacturer: Keymat Technology Ltd
- Trademark: Storm Interface
- Website: [www.storm-interface.com](http://www.storm-interface.com)

## Product Usage Instructions

- To retrieve the current configuration of the device, follow these steps:
- To download firmware to the device, follow these steps:

## Introduction

- It may be a requirement (with a population of installed units) to remotely change the firmware that is installed on the NavPad.
- To facilitate this process, Storm has created a batch file that can be integrated within your Terminal Management System.
- This comes in a .zip file together with other files that you will need.

### The batch file is: IBM\_DOWNGRADE.BAT

- You will also need the relevant firmware file included in the .zip file
- In this case the firmware file is called 000-IC-169-EZKV06-DWG.txt

### When you run the batch file (on the local machine) it then launches NavPadDowngrade.bat, which then

- Extracts a copy of the current configuration i.e. version number, serial number, etc.
- Updates the NavPad with the specified firmware.

- Reloads the serial number/configuration
- If, for any reason, the process fails, then the script will try to reload the firmware & reconfigure from a backup file.

## Procedure

1. Extract the zip file contents to a local file.
2. Run IBM\_DOWNGRADE.BAT within its folder to downgrade the NavPad to 000-IC-169-EZKV06-DWG.txt
3. Wait for the script to complete.

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## NavpadDownloaderUtility

The NavpadDownloaderUtility is used to retrieve the current configuration of the device and to download the firmware to the device.

### To retrieve the current configuration, use the following parameters

- NavpadDownloaderUtility -p <PRODUCT NAME> -v
- -p <PRODUCT NAME> where PRODUCT NAME is always NAVPAD
- -v Retrieves current configuration of unit
- If successful, the output will be :
- C:\>NavpadDownloaderUtility.exe -p NAVPAD -v
- Navpad Downloader Console Utility Version V1.0
- Vendor Id:2047
- Product Id:9bf
- Device manager: found device with VID: 2047 PID: 9bf called constructor 1 vid 8263 pid 2495 vid 2047 pid 9bf manufacture [Storm-Interface.com](http://Storm-Interface.com)
- Connected
- Connected to NAVPAD – VID 2047 PID 9bf

### Device Information before firmware upgrade:

- Buzzer 1
- Buzzer Period 1
- Led Brightness 6
- Navpad has 8 keys

- Keypad Table 0
- Keycode values :
- 0 72 0 6c 0 73 0 70 0 71 0 6d 0 6e 0 6f 0 6a 0 6b
- Version Number V6.0
- Serial Number 12345678

### To download firmware to device

- NavpadDownloaderUtility -p <PRODUCT NAME> -f <filename> -r <NUMBER>
- -p <PRODUCT NAME> where PRODUCT NAME is always NAVPAD
- -f <Filename> Where filename is firmware file.
- -r <NUMBER> Where NUMBER is how many retries to attempt before failure.

### NavpadUtility

The NavpadUtility is used to set the number of configuration parameters and also to compare the settings of a device before and after upgrade. It uses the files ibm\_before\_downgrade.txt and ibm\_after\_downgrade.txt.

1. To set main configuration parameters, number of keys and serial number:

NavpadUtility -k <KEYS> -n <SERIAL NO>

- k < KEYS > Sets number of keys for Navpad (it can have 5, 6 or 8)
- n <SERIAL NO> Sets the serial number of Navpad.

2. To compare before and after upgrade files.

NavpadUtility -c <AFTER UPGRADE FILENAME> <BEFORE UPGRADE FILENAME>

**Note:** Files should be in the format as generated by NavpadDownloaderUtility.

### Script Usage

- Instructions on how to use the script:
- NavpadDowngrade filename firmwareFile
- Where filename: This filename will be used to store all configuration data. The script will create the following text (.txt) files.
  - Filename\_before\_downgrade.txt
  - Filename\_after\_downgrade.txt
  - Filename\_backup.txt
- Filename\_before\_upgrade.txt – This holds configuration data before upgrade.
- Filename\_backup.txt – This is a copy of above, and it is used when the upgrade process fails to recover the serial number and number of keys.
- Filename\_after\_upgrade.txt – This holds configuration data after upgrade.
- Where firmwareFile – This file is the firmware file that will be used to upgrade the NavPad.
- When the script is executed, each step will be highlighted in Yellow, e.g.

```
=====
==  STEP 3  Retrieve configuration data after upgrade  ==
=====
```

- and if NavPad has been upgraded successfully, then a message in Green will be displayed.

```
=====
==  PASSED - KEYPAD HAS BEEN SUCCESSFULLY UPGRADED  ==
=====
```

- If the upgrade process is unsuccessful, then the final message will be displayed in Red:

```
=====
==  FAILED TO UPGRADE FIRMWARE  ==
=====
```

## Examples

### 1. Successfully downgraded Navpad

C:\NavpadDowngrade.bat navpadConf 000-IC-169-EZKV06-DWG.txt

```
=====
==  STEP 1  Retrieve configuration data before downgrade  ==
==  KIOSKNAME KI00050  ==
=====
```

- 1 file(s) copied.
- Serial Number 170312345678
- 170312345678

```
=====
==  STEP 2  Upgrading keypad using 000-IC-169-EZKV06-DWG.txt  ==
=====
```

## Navpad Downloader Console Utility Version V1.0

- Vendor Id:2047
- Product Id:9bf
- Device manager: found device with VID: 2047 PID: 9bf
- called constructor 1
- vid 8263 pid 2495
- vid 2047 pid 9bf
- manufacture [Storm-Interface.com](http://Storm-Interface.com)
- Connected

- Connected to NAVPAD – VID 2047 PID 9bf

#### **Device Information before firmware downgrade:**

- Buzzer 1
- Buzzer Period 1
- Led Brightness 9
- Navpad has 6 keys
- Keypad Table 0
- Keycode values :
- 0 72 0 6c 0 73 0 70 0 71 0 6d 0 6e 0 6f 0 6a 0 6b
- Version Number V6.0
- Serial Number 170312345678

Please wait; starting BSL

Successfully started BSL

Dispose

- Dispose 1
- Dispose 2
- Dispose 3
- Dispose 4

BSL Scripting application 1.06

The local time is 12:20 on 06.10.2017

#### **Password Sent Successfully**

- Sending RAM BSL
- Sending 000-IC-169-EZKV06-DWG.txt
- Firmware Sent
- Verifying memory
- Memory successfully verified
- Resetting Device...
- Starting application
- called constructor 1
- called constructor 1
- vid 8263 pid 2495
- vid 2047 pid 9bf
- manufacture [Storm-Interface.com](http://Storm-Interface.com)
- Connected

#### **Device Information after firmware downgrade:**

- Buzzer 1

- Buzzer Period 1
- Led Brightness 9
- Navpad has 5 keys
- Keypad Table 0
- Keycode values :
- 0 72 0 6c 0 73 0 70 0 71 0 6d 0 6e 0 6f 0 6a 0 6b
- Version Number V6.0
- Serial Number

### **Restore all the values back**

- Successful in setting number of keys 6
- Successful in setting serial number of keys 170312345678
- vid 8263 pid 2495
- vid 2047 pid 9bf
- manufacture Storm-Interface.com
- Connected
- Successful in SetLedLevel 9
- Successful in SetBuzzer 1
- Successful in SetBuzzerPeriod 1
- Successful in SetKeypadTable 0
- Successful in LoadCodeTable
- Successful in writing to flash
- Read device info after restoring the values

### **Device Information after values are restored:**

- Buzzer 1
- Buzzer Period 1
- Led Brightness 9
- Navpad has 8 keys
- Keypad Table 0
- Keycode values :
- 0 72 0 6c 0 73 0 70 0 71 0 6d 0 6e 0 6f 0 6a 0 6b
- Version Number V6.0
- Serial Number 170312345678

### **Dispose**

- Dispose 1
- Dispose 2
- Dispose 3
- Dispose 4
- Dispose

- Dispose 1
- Dispose 2
- Dispose 3
- Dispose 4

=====

**== STEP 3 Retrieve configuration data after downgrade ==**

=====

=====

**== STEP 4 Compare result of before downgrade and after downgrade ==**

=====

**Matched Buzzer 1**

- Matched Buzzer Period 1
- Matched Led Brightness 9
- Matched Navpad has 8 keys
- Matched Keypad Table 0
- Matched 0 72 0 6c 0 73 0 70 0 71 0 6d 0 6e 0 6f 0 6a 0 6b
- The keypad has been successfully upgraded to Version Number V6.0
- Matched Serial Number 170312345678

=====

**== PASSED - KEYPAD HAS BEEN SUCCESSFULLY UPGRADED ==**

=====

- Unsuccessful upgrade process

=====

**== FAILED TO UPGRADE FIRMWARE ==**

=====

**Change History**

Instructions for	<u>Date</u>	<u>Version</u>	<u>Details</u>
Downloader Utility	15 Aug 24	1.0	First Release (split out from Technical Manual)




Remote Firmware Update	<u>Date</u>	<u>Version</u>	<u>Details</u>
NavpadDownloaderUtility	08 Sep 17	5.0	New Release

NavPad – Downloader Utility Rev 1.0 [www.storm-interface.com](http://www.storm-interface.com)

## FAQ

- **What is the purpose of the NavPad Downloader Utility?**
  - The NavPad Downloader Utility is used to remotely change the firmware installed on the NavPad.
- **What files are required for a firmware downgrade?**
  - You will need the IBM\_DOWNGRADE.BAT batch file and the firmware file named 000-IC-169-EZKV06-DWG.txt, which are included in the .zip file.
- **How can I compare settings before and after an upgrade?**
  - Use the NavpadUtility with the files ibm\_before\_downgrade.txt and ibm\_after\_downgrade.txt to compare settings.

## Documents / Resources

	<p><b><a href="#">Storm Interface EZKV06 NavPad Enabled Keypads</a></b> [pdf] Instruction Manual  000-IC-169-EZKV06-DWG, EZKV06 NavPad Enabled Keypads, NavPad Enabled Keypads, Enabled Keypads, Keypads</p>
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## References

- [⚡ Home | Storm Interface | Interface Specialists](#)
- [User Manual](#)

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