

**ZT-SLIM**  
**USB-Based Commands**  
**Supplemental Manual**

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# 1: OVERVIEW

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The ZT-SLIM tonnage module is capable of many useful functions that do not require the use of the SlimWare HMI software. This is accomplished using the ZT-SLIM's USB interface on the bottom of the unit, and a USB flash drive. Some of the available features include obtaining the current ethernet configuration, setting the ethernet configuration, backing up and restoring the current configuration/data, and resetting the unit to its factory default state.



## 2: IMPORTANT INFORMATION

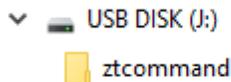
There are some details the user should know prior to using the USB-based commands

- Commands are implemented by use of a USB flash drive. This flash drive must meet the following requirements.

- Capacity: 32GB or less
- Formatted using FAT32 file format

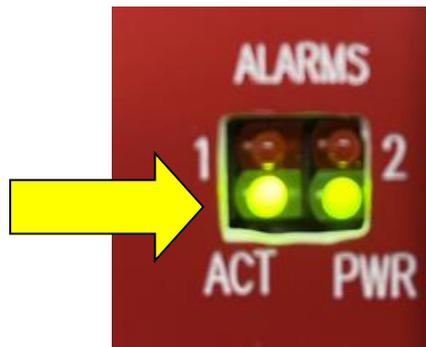


- You must create a directory named **ztcommand** (all lower-case letters) on the root of the Command Flash Drive. Commands are implemented by copying or creating certain files to this folder.

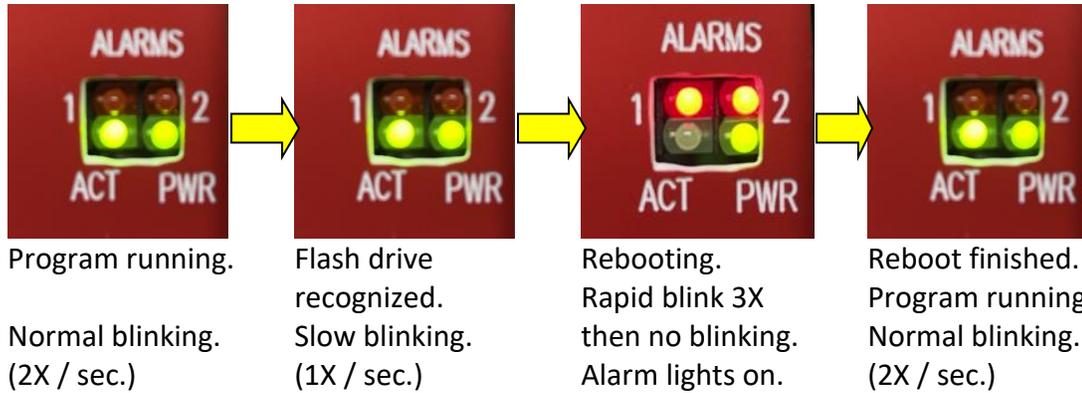


Tip: Make another folder on the flash drive with all the available command files so that you can copy them to the **ztcommand** folder as needed.

- Some commands will cause the ZT-SLIM to reboot, which will open the unit's shutdown relay. Be sure that the press is stopped before issuing these commands.
- Only one command can be issued at a time. Therefore, make sure there is only one command file located in the **ztcommand** folder at any given time.
- Commands will only work if the ZT-SLIM's internal program is running. Make sure the activity (ACT) light on the front of the unit is blinking normally (approx. 2X per second) before attempting to use commands.



- It is helpful to know the ZT-SLIM restart sequence when issuing commands that cause a reboot. This can be done by watching the state of the activity (ACT) light on the front of the ZT-SLIM.



- If it seems like a command is not working, it is possible the ZT-SLIM did not recognize the flash drive. Verify the following:
  - ACT light is flashing normally (2X per second).
  - Flash drive is 32 GB or less and FAT32 format.
  - **ztcommand** folder is created on the flash drive and command file is present inside.

If the above requirements are met, reboot the ZT-SLIM or try a different USB flash drive.

## 3: AVAILABLE COMMANDS

### Read Ethernet Configuration:

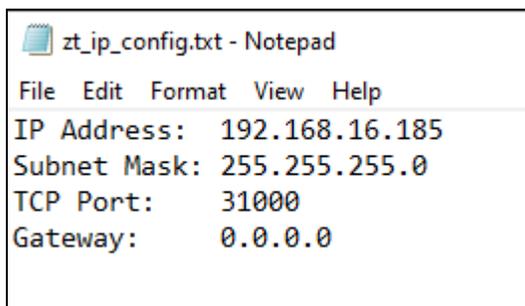
This feature is not exactly a command, but every time a compatible flash drive is inserted into an available USB port, the ZT-SLIM will write its current ethernet configuration to a text file, **zt\_ip\_config.txt**, on the root of the flash drive. This is helpful for situations where the IP address is not known.

To read the ethernet configuration:

- 1) Insert a flash drive into any available ZT-SLIM USB port. You do not need to have a command file in the **ztcommand** folder.
- 2) Wait 5-10 seconds.
- 3) Remove the flash drive from the ZT-SLIM.
- 4) Insert the flash drive into a PC and browse its contents.
- 5) On the root of the flash drive, you should find a **zt\_ip\_config.txt** file.



- 6) Open the file to view the ethernet configuration of the ZT-SLIM, including the IP address, subnet mask, TCP port, and gateway address.

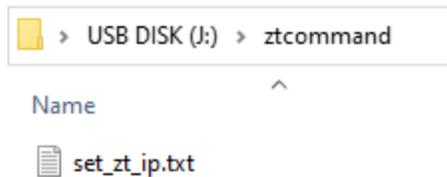


## Set Ethernet Configuration:

Use this command to set the ethernet configuration of the ZT-SLIM without the need for the SlimWare HMI software. Note that this command will cause the ZT-SLIM to reboot.

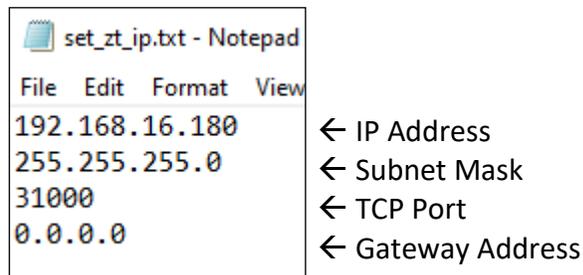
To set the ethernet configuration:

- 1) On a PC, create a text file named **set\_zt\_ip.txt** and open it for editing.
- 2) Enter the desired IP address, subnet mask, TCP port, and gateway address. See below for the proper format.
- 3) Save the file.
- 4) Insert the Command Flash Drive into the PC and browse its contents.
- 5) Copy the **set\_zt\_ip.txt** file to the flash drive's **ztcommand** folder.



- 6) Remove the flash drive from the PC and insert it into any available USB port of the ZT-SLIM.
- 7) Wait for the ZT-SLIM to recognize the flash drive, update its ethernet configuration, and reboot.
- 8) Once the ZT-SLIM has rebooted, remove the flash drive.

Format of the **set\_zt\_ip.txt** file:



Notes:

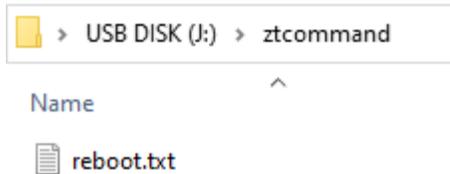
- The settings must be listed in the order above.
- You may omit lines from the end of the file if their settings do not need to be changed. However, do NOT skip lines. For example, if you only wish to change the IP address and gateway, you must also include the subnet mask and TCP port.
- Unless otherwise required, the TCP Port should always be 31000.
- If a gateway is not needed, this should be set to 0.0.0.0 or simply leave this line blank.

## **Reboot the ZT-SLIM:**

Use this command to force the ZT-SLIM to reboot without the need to cycle power.

To reboot the ZT-SLIM:

- 1) On a PC, create a text file named **reboot.txt**. Leave the file empty.
- 2) Insert the Command Flash Drive into the PC and browse its contents.
- 3) Copy the **reboot.txt** file to the flash drive's **ztcommand** folder.



- 4) Remove the flash drive from the PC and insert it into any available USB port of the ZT-SLIM.
- 5) Wait for the ZT-SLIM to recognize the flash drive.
- 6) The ZT-SLIM will reboot.
- 7) Once the ZT-SLIM has rebooted, remove the flash drive.

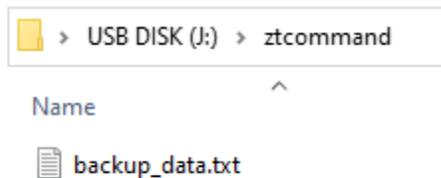
## **Backup the ZT-SLIM's Data:**

Use this command to create a backup of the ZT-SLIM's data including its configuration and CCM press curve. The backup is written to the Command Flash Drive. This can be helpful for transferring settings and configuration from one unit to another.

**Tip:** Once you have a ZT-SLIM with a good configuration, it is good idea to make a backup. That way, if the unit ever needs to be replaced, you will be able to quickly restore it and get running again.

To create a backup of the ZT-SLIM's data:

- 1) On a PC, create a text file named **backup\_data.txt**. Leave the file empty.
- 2) Insert the Command Flash Drive into the PC and browse its contents.
- 3) Copy the **backup\_data.txt** file to the flash drive's **ztcommand** folder.



- 4) Remove the flash drive from the PC and insert it into any available USB port of the ZT-SLIM.
- 5) Wait 5-10 seconds.
- 6) Remove the flash drive from the ZT-SLIM.

The ZT-SLIM will create a folder on the flash drive named **zt\_backup** and save all critical data inside. You can keep these files on the flash drive or archive them for safe keeping.

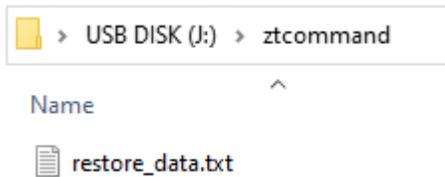


## Restore the ZT-SLIM's Data From a Backup:

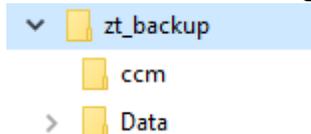
Use this command to restore the ZT-SLIM's data including its configuration and CCM press curve. This requires that a previous backup of the data is available. This can be helpful for transferring settings and configuration from one unit to another. Note that this will cause the ZT-SLIM to reboot.

To restore the ZT-SLIM's data from a backup:

- 1) On a PC, create a text file named **restore\_data.txt**. Leave the file empty.
- 2) Insert the Command Flash Drive into the PC and browse its contents.
- 3) Copy the **restore\_data.txt** file to the flash drive's **ztcommand** folder.



- 4) If the backup data is not already on the flash drive...
  - a. Create a folder named **zt\_backup** on the root of the flash drive.
  - b. Copy the archived backup to the **zt\_backup** folder, such that its data structure resembles the following.



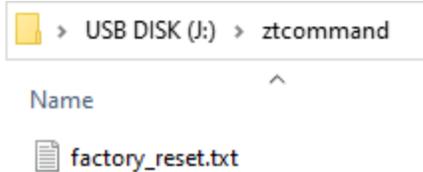
- 5) Remove the flash drive from the PC and insert it into any available USB port of the ZT-SLIM.
- 6) Wait for the ZT-SLIM to recognize the flash drive, restore its data, and reboot.
- 7) Once the ZT-SLIM has rebooted, remove the flash drive.
- 8) If the ethernet settings from the restored data are different from the ZT-SLIM's current settings, the ZT-SLIM will reboot once more in order to apply the new configuration.

## **Reset the ZT-SLIM to its Factory Default:**

Use this command to restore the ZT-SLIM back to its factory default. This includes all settings including the ethernet configuration. Note that this will cause the ZT-SLIM to reboot.

To reset the ZT-SLIM back to its factory default:

- 1) On a PC, create a text file named **factory\_reset.txt**. Leave the file empty.
- 2) Insert the Command Flash Drive into the PC and browse its contents.
- 3) Copy the **factory\_reset.txt** file to the flash drive's **ztcommand** folder.



- 4) Remove the flash drive from the PC and insert it into any available USB port of the ZT-SLIM.
- 5) Wait for the ZT-SLIM to recognize the flash drive, revert all settings to their defaults, and reboot.
- 6) Once the ZT-SLIM has rebooted, remove the flash drive.

After the factory reset, the ZT-SLIM will revert to its default ethernet configuration:

- IP Address: 192.168.16.180
- Subnet Mask: 255.255.255.0
- TCP Port: 31000
- Gateway Address: 0.0.0.0