

Partner

Update

N-Cloud/N-Reporter Kernel

V003

2021/12/02



Copyright Declaration

Copyright © N-Partner Technologies Co. All Rights reserved. Without written authorization from N-Partner Technologies Co., anyone may not in any way copy, plagiarize or translate this manual. The system is keeping upgraded; therefore, N-Partner reserves the right to revise it without informing.

Registered Trademark

All company products, names and trademarks mentioned in this manual belongs to their legally registered organizations.

Contents

- Preface2**
- 1. For Firmware 6.1.089.....3**
 - 1.1 N-Reporter3
 - 1.2 N-Cloud6
 - 1.2.1 N-Center6
 - 1.2.2 N-Receiver9
 - 1.2.3 N-LB12
- 2. For Firmware 6.1.102 or Later Versions15**
 - 2.1 N-Reporter15
 - 2.2 N-Cloud17
 - 2.2.1 N-Center17
 - 2.2.2 N-Receiver19
 - 2.2.3 N-LB21
- 3. For Kernel 20210101 or Later Versions24**
 - 3.1 N-Reporter24
 - 3.2 N-Cloud26
 - 3.2.1 N-Center26
 - 3.2.2 N-Receiver28
 - 3.2.3 N-LB30

Preface

This document is about how to update N-Cloud/N-Reporter Kernel.

The steps in this document are for updating versions before Firmware 6.1.089 and after Firmware 6.1.102.

Download N-Cloud 6.x/N-Reporter 6.x Kernel:

https://www.npartnertech.com/download/kernel/np_kernel.npz

1. For Firmware 6.1.089

1.1 N-Reporter

Connect to N-Reporter CLI by using SecureCRT, Xshell, or the other SSH Client tools.

(The default account/password is npartner/npartner)

- (1) View the current version.

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : NP-NPT-Y-TN-LP6WNGAH
```

- (2) Upgrade Kernel.

```
Reporter# system kernel upgrade
```

```
Reporter# system kernel upgrade
```

Enter “y” to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Enter “y” to transfer the file with ZMODEM.

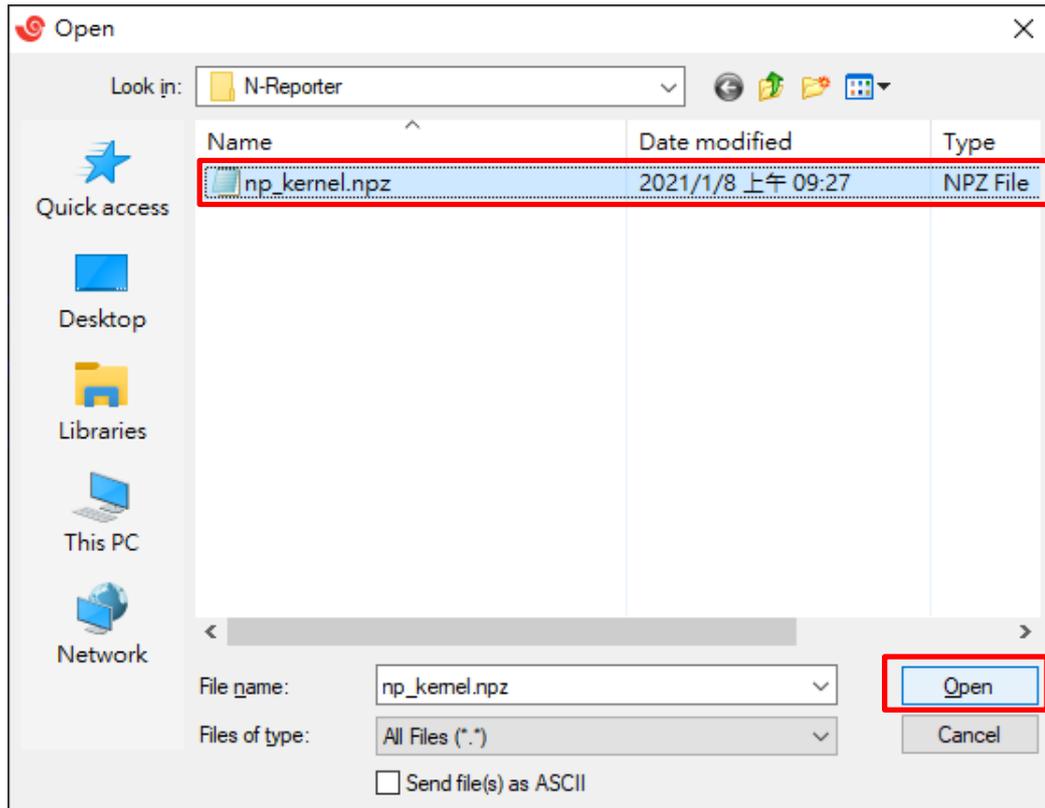
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

Enter “y” to confirm; here, the SSH Client is Xshell.

```
Do you using [XShell] as the terminal ? [y/N]y
```

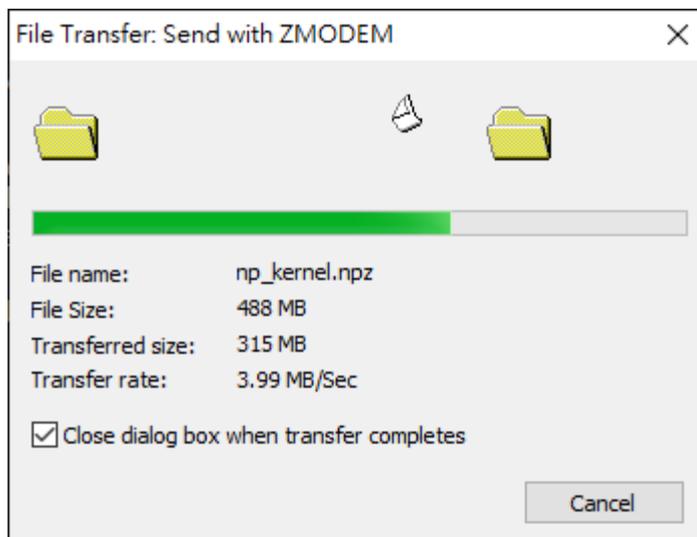
If the SSH Client is SecureCRT, enter “n.”

Select file “np_kernel.npz” and click “Open.”



A window will pop up and show the transferring status.

Please do not interrupt the transferring and upgrading process.



If the MD5 code of "CURRENT FILE" and "Initrd FILE" are the same, enter "y," and "kernel Upgrade done" will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
Reporter# reboot
```

```
Reporter# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : NP-NPT-Y-TN-LP6WNGAH
```

1.2 N-Cloud

Connect to N-Cloud CLI by using SecureCRT, Xshell, or the other SSH Client tools.

(The default account/password is npartner/npartner)

1.2.1 N-Center

- (1) View the current version.

```
C1# show version
```

```
C1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : NP-NPT-Y-TW-PCLEWUPU
```

- (2) Upgrade Kernel.

```
C1# system kernel upgrade
```

```
C1# system kernel upgrade
```

Enter “y” to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Enter “y” to transfer the file with ZMODEM.

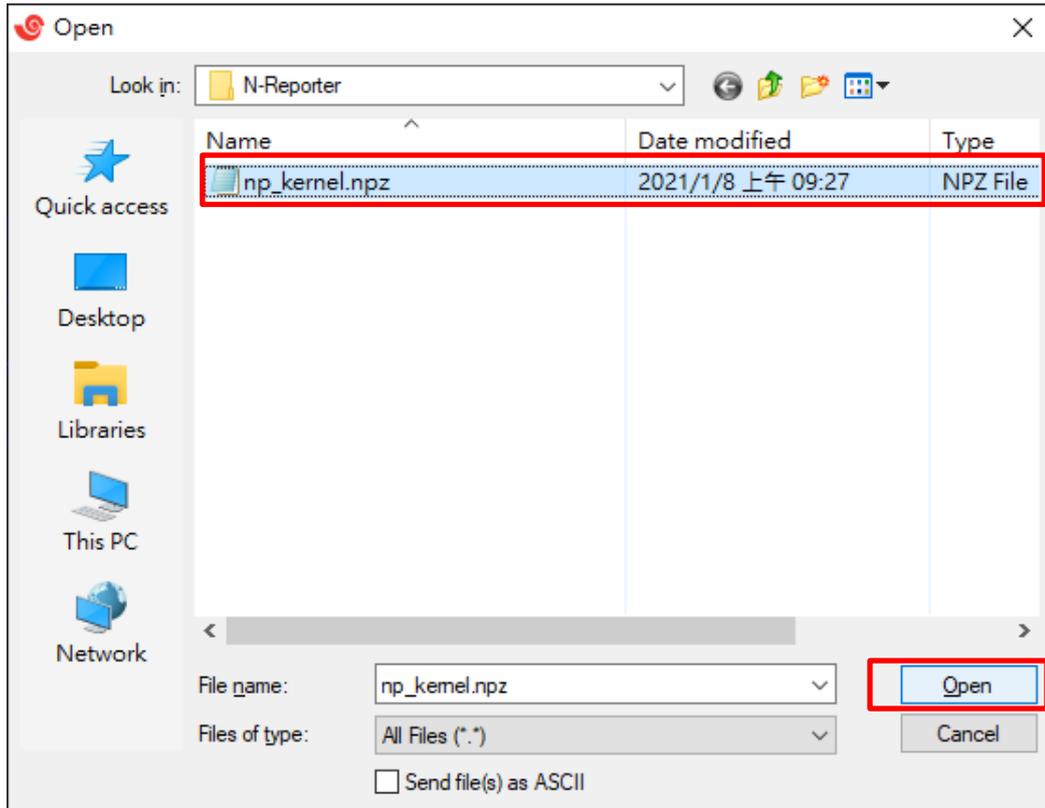
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

Enter “y” to confirm; here, the SSH Client is Xshell.

```
Do you using [XShell] as the terminal ? [y/N]y
```

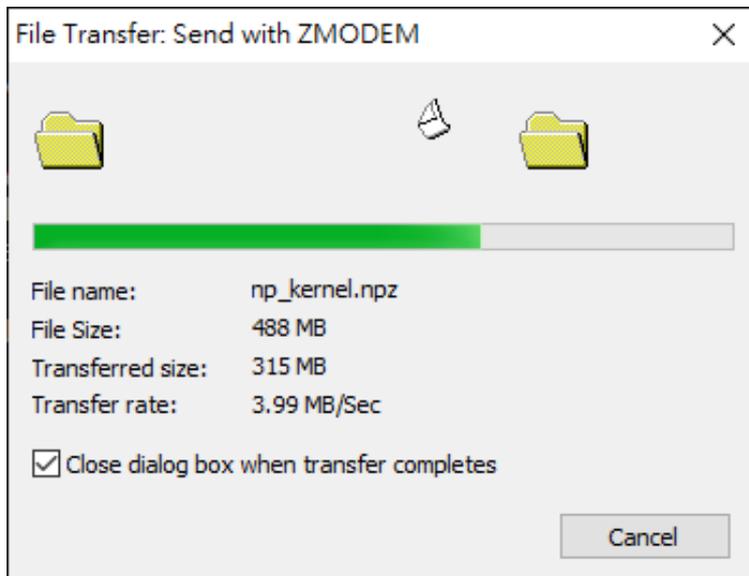
If the SSH Client is SecureCRT, enter “n.”

Select file “np_kernel.npz” and click “Open.”



A window will pop up and show the transferring status.

Please do not interrupt the transferring and upgrading process.



If the MD5 code of "CURRENT FILE" and "Initrd FILE" are the same, enter "y," and "kernel Upgrade done" will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
C1# reboot
```

```
C1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
C1# show version
```

```
C1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : NP-NPT-Y-TM-FOLGHPFU
```

1.2.2 N-Receiver

- (1) View the current version.

```
R1# show version
```

```
R1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : NP-NPT-Y-TN-KKKUJFNO
```

- (2) Upgrade Kernel.

```
R1# system kernel upgrade
```

```
R1# system kernel upgrade
```

Enter “y” to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Enter “y” to transfer the file with ZMODEM.

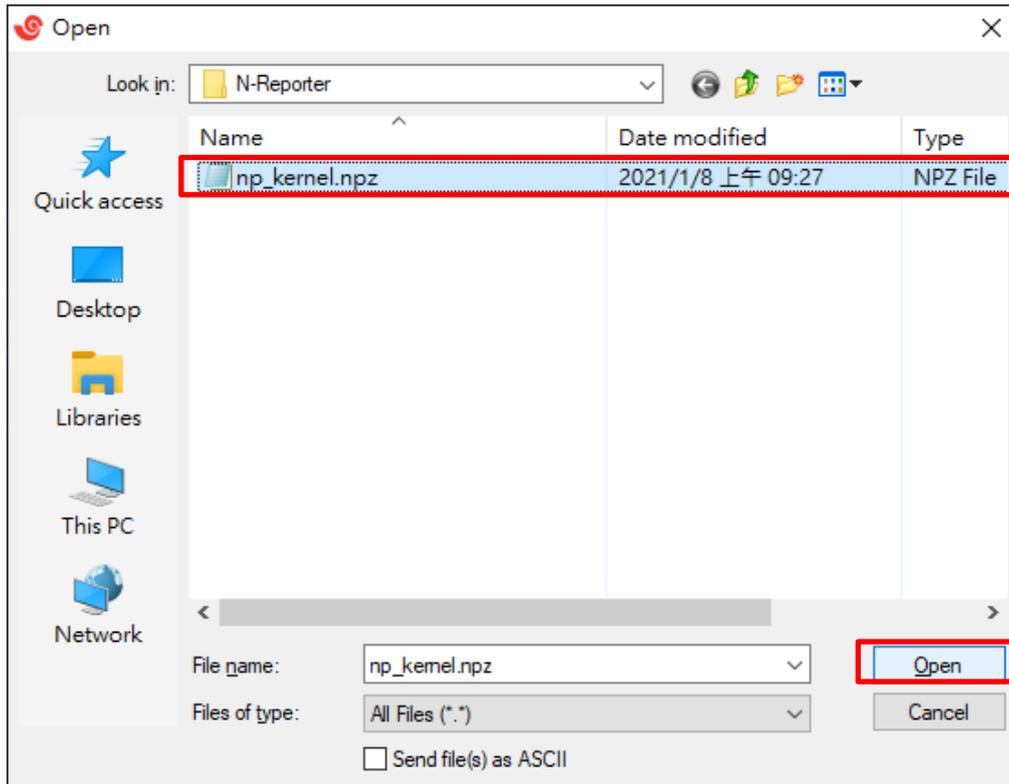
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

Enter “y” to confirm; here, the SSH Client is Xshell.

```
Do you using [XShell] as the termnal ? [y/N]y
```

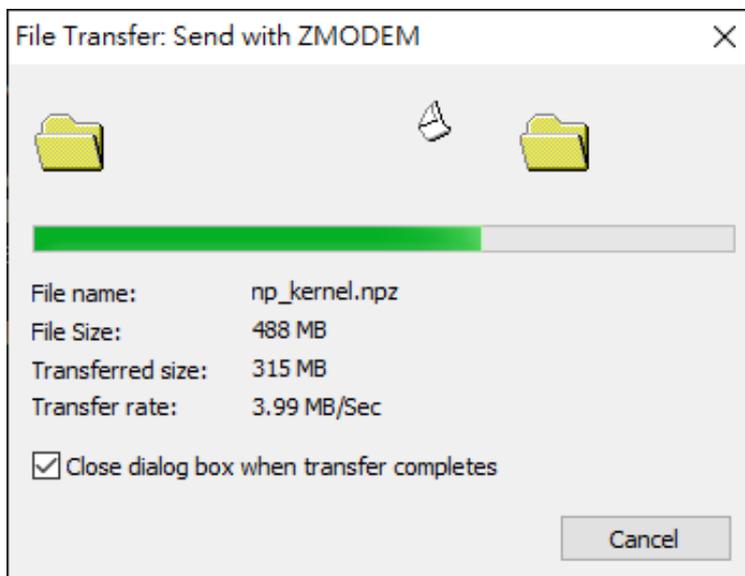
If the SSH Client is SecureCRT, enter “n.”

Select file “np_kernel.npz” and click “Open.”



A window will pop up and show the transferring status.

Please do not interrupt the transferring and upgrading process.



If the MD5 code of "CURRENT FILE" and "Initrd FILE" are the same, enter "y," and "kernel Upgrade done" will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
R1# reboot

R1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
R1# show version

R1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : NP-NPT-V-TM-88810100
```

1.2.3 N-LB

- (1) View the current version.

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : NP-NPT-Y-TW-RTLMLDOY
```

- (2) Upgrade Kernel.

```
LB1# system kernel upgrade
```

```
LB1# system kernel upgrade
```

Enter “y” to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Enter “y” to transfer the file with ZMODEM.

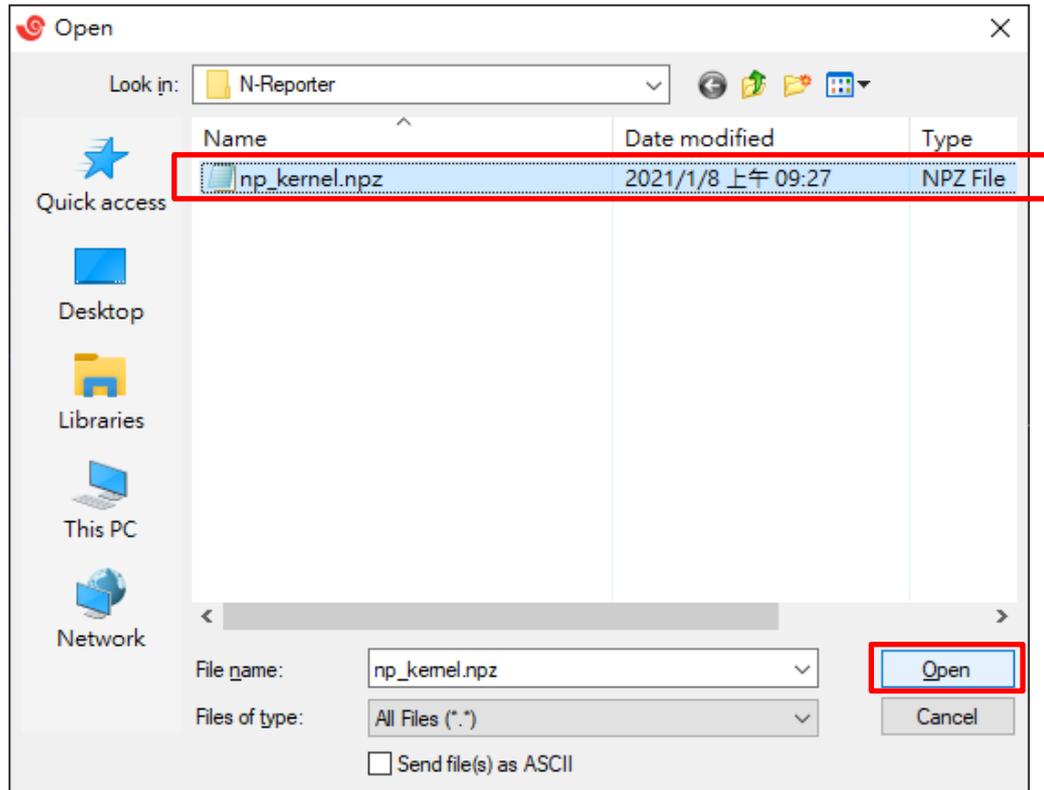
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

Enter “y” to confirm; here, the SSH Client is Xshell.

```
Do you using [XShell] as the terminal ? [y/N]y
```

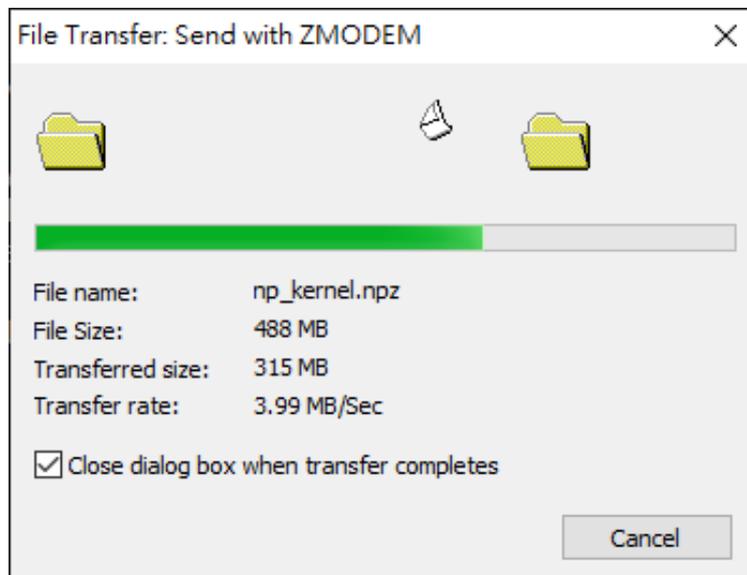
If the SSH Client is SecureCRT, enter “n.”

Select file “np_kernel.npz” and click “Open.”



A window will pop up and show the transferring status.

Please do not interrupt the transferring and upgrading process.



If the MD5 code of “CURRENT FILE” and “Initrd FILE” are the same, enter “y,” and “kernel Upgrade done” will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
LB1# reboot

LB1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
LB1# show version

LB1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : NP-NPT-Y-TM-RTLMLDOY
```

2. For Firmware 6.1.102 or Later Versions

2.1 N-Reporter

Connect to N-Reporter CLI by using SecureCRT, Xshell, Putty, or the other SSH Client tools.

(The default account/password is npartner/npartner)

For the example of this chapter, the file transmission type is HTTP/HTTPS.

- (1) View the current version.

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20200318152210
Serial number : NP-NPT-Y-TM-LP6WNGAH
```

- (2) Upgrade Kernel.

```
Reporter# system kernel upgrade
```

```
Reporter# system kernel upgrade
```

Enter "y" to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [3] HTTP/HTTPS.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
  [2] SCP/SFTP
  [3] HTTP/HTTPS
You Choose : 3
```

Enter target URL.

```
Please provide target URL such as "http://example.com/path/file"
Your URL is : http://192.168.5.129/np_kernel.npz
```

The transmission status will show.

Please do not interrupt the transferring and upgrading process.

```
% Total      % Received % Xferd  Average Speed   Time    Time       Time  Current
   61  488M   61  299M    0     0  9413k      0  0:00:53  0:00:32  0:00:21  9444k
```

If the MD5 code of "CURRENT FILE" and "Initrd FILE" are the same, enter "y," and "kernel Upgrade done" will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
Reporter# reboot
```

```
Reporter# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20201106104601
Serial number : NP-NPT-Y-TN-LP6WNGMH
```

2.2 N-Cloud

Connect to N-Cloud CLI by using SecureCRT, Xshell, Putty, or the other SSH Client tools.

(The default account/password is npartner/npartner)

2.2.1 N-Center

For the example of this chapter, the file transmission type is HTTP/HTTPS.

- (1) View the current version.

```
C1# show version
```

```
C1# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20200318152210
Serial number : NP-NPT-V-TW-NOLOMUPU
```

- (2) Upgrade Kernel.

```
C1# system kernel upgrade
```

```
C1# system kernel upgrade
```

Enter "y" to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [3] HTTP/HTTPS.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 3
```

Enter target URL.

```
Please provide target URL such as "http://example.com/path/file"
Your URL is : http://192.168.5.129/np_kernel.npz
```

The transmission status will show.

Please do not interrupt the transferring and upgrading process.

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current				
			Dload Upload	Total	Spent	Left	Speed				
61	488M	61	299M	0	0	9413k	0	0:00:53	0:00:32	0:00:21	9444k

If the MD5 code of “CURRENT FILE” and “Initrd FILE” are the same, enter “y,” and “kernel Upgrade done” will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
C1# reboot

C1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
C1# show version

C1# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20201106104601
Serial number : NP-NPT-V-TW-ROLDHUFU
```

2.2.2 N-Receiver

For the example of this chapter, the file transmission type is SCP/SFTP.

- (1) View the current version.

```
R1# show version
```

```
R1# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20200318152210
Serial number : NP-NPT-Y-TM-KKKUJHNO
```

- (2) Upgrade Kernel.

```
R1# system kernel upgrade
```

```
R1# system kernel upgrade
```

Enter "y" to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [2] SCP/SFTP.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
  [2] SCP/SFTP
  [3] HTTP/HTTPS
You Choose : 2
```

Enter target SCP path and password.

```
Please provide target SCP path such as "user@example.com:/path/file"
Your SCP Path is : npartner@192.168.5.129:C:/tmp/np_kernel.npz
Warning: Permanently added '192.168.5.129' (ECDSA) to the list of known hosts.
npartner@192.168.5.129's password:
```

The transmission status will show.

Please do not interrupt the transferring and upgrading process.

```
np_kernel.npz 74% 366MB 19.1MB/s 00:06 ETA
```

If the MD5 code of “CURRENT FILE” and “Initrd FILE” are the same, enter “y,” and “kernel Upgrade done” will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
R1# reboot
```

```
R1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
R1# show version
```

```
R1# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20201106104601
Serial number : NP-NPT-V-TM-KKKUJFND
```

2.2.3 N-LB

For the example of this chapter, the file transmission type is SZ/RZ.

- (1) View the current version.

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20200318152210
Serial number : NP-NPT-V-TN-RTLMLD0Y
```

- (2) Upgrade Kernel.

```
LB1# system kernel upgrade
```

```
LB1# system kernel upgrade
```

Enter “y” to confirm.

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [1] SZ/RZ.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 1
```

Enter “y” to transfer the file with ZMODEM.

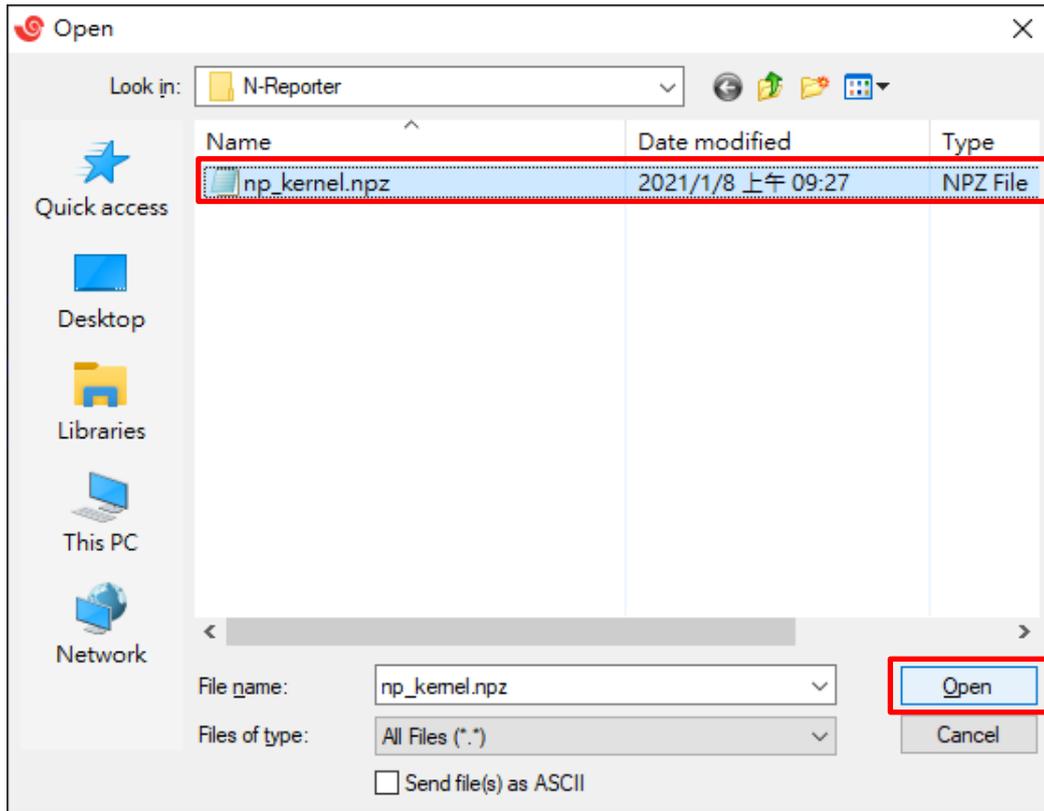
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

Enter “y” to confirm; here, the SSH Client is Xshell.

```
Do you using [XShell] as the terminal ? [y/N]y
```

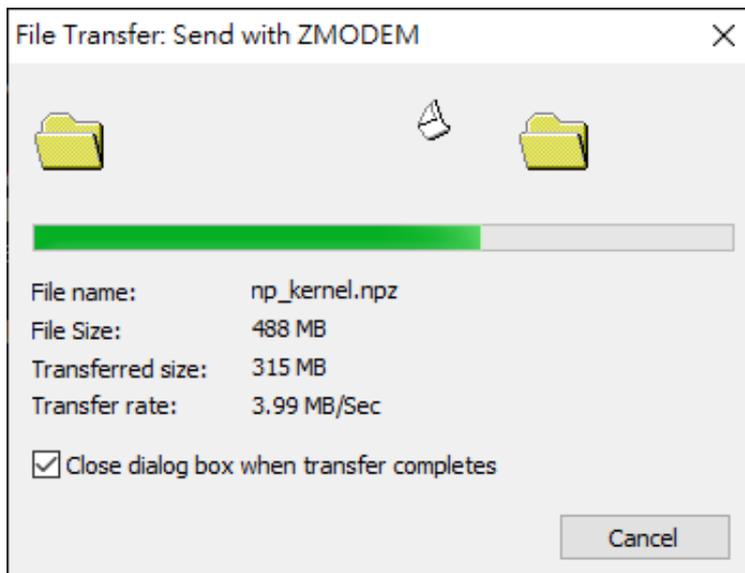
If the SSH Client is SecureCRT, enter “n.”

Select file “np_kernel.npz” and click “Open.”



A window will pop up and show the transferring status.

Please do not interrupt the transferring and upgrading process.



If the MD5 code of "CURRENT FILE" and "Initrd FILE" are the same, enter "y," and "kernel Upgrade done" will show.

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
LB1# reboot
LB1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
LB1# show version
LB1# show version
Software version : 6.1.102 (20210108-1230)
NP Kernel version : 20201106104601
Serial number : NP-NPT-V-TW-RTLHLDGY
```

3. For Kernel 20210101 or Later Versions

3.1 N-Reporter

Connect to N-Cloud CLI by using SecureCRT, Xshell, Putty, or the other SSH Client tools.

(The default account/password is npartner/npartner)

For Kernel 20210101 or later versions, if eth0 MAC address is bigger than eth1 MAC, the system will exchange the two interfaces while upgrading. If reapplying a new license is required, please send machine.dat to N-Partner with Firmware version and Seq. No. and state that it is for Kernel 20210101 upgrading effects.

For the example of this chapter, the file transmission type is HTTP/HTTPS.

- (1) View the current version.

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.144 (20211117-0954)
NP Kernel version : 20201106104601
Serial number : NP-RPT-V-Tw-LJ6666FM
Reporter#
```

- (2) Upgrade Kernel.

```
Reporter# system kernel upgrade
```

```
Reporter# system kernel upgrade
```

Enter "y" to confirm.

```
Current Version is [20201106104601]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [3] HTTP/HTTPS.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 3
```

Enter target URL.

```
Please provide target URL such as "http://example.com/path/file"  
Your URL is : http://192.168.5.129/np_kernel.npz
```

The transmission status will show.

Please do not interrupt the transferring and upgrading process.

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current				
			Dload Upload	Total	Spent	Left	Speed				
38	1005M	38	390M	0	0	3357k	0	0:05:06	0:01:59	0:03:07	9.9M

“Verifying uploaded kernel” will show. Enter “y” to confirm, and “kernel Upgrade done” will show.

```
Verifying uploaded kernel ... OK  
  
Please confirm change kernel? [y/n]y  
Processing upgrade ... done  
  
Verifying files again after upgrade ... OK  
  
Kernel Upgrade done.  
Please reboot to take effect after kernel upgraded.
```

(3) Reboot the system.

```
Reporter# reboot
```

```
Reporter# reboot  
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

(4) View the current version.

```
Reporter# show version
```

```
Reporter# show version  
Software version : 6.1.144  
NP Kernel version : 20211105022411  
Serial number : NP-APT-n-Thu-LJ0000PM
```

3.2 N-Cloud

Connect to N-Cloud CLI by using SecureCRT, Xshell, Putty, or the other SSH Client tools.

(The default account/password is npartner/npartner)

3.2.1 N-Center

For Kernel 20210101 or later versions, if eth0 MAC adress is bigger than eth1 MAC, the system will exchange the two interfaces while upgrading. If reapplying a new license is required, please send machine.dat to N-Partner with Firmware version and Seq. No. and state that it is for Kernel 20210101 upgrading effects.

For the example of this chapter, the file transmission type is HTTP/HTTPS.

- (1) View the current version.

```
C1# show version
```

```
C1# show version
Software version : 6.1.144 (20211117-0954)
NP Kernel version : 20201117151936
Serial number : NP-RPT-V-TW-WLAJLZFU
```

- (2) Upgrade Kernel.

```
C1# system kernel upgrade
```

```
C1# system kernel upgrade
```

Enter "y" to confirm.

```
Current Version is [20201117151936]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [3] HTTP/HTTPS.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 3
```

Enter target URL.

```
Please provide target URL such as "http://example.com/path/file"
Your URL is : http://192.168.5.129/np_kernel.npz
```

The transmission status will show.

Please do not interrupt the transferring and upgrading process.

```
Your URL is : http://192.168.5.37/np_kernel.npz
% Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
             Dload  Upload   Total     Spent    Left     Speed
55 1005M    55  553M    0      0  45.5M      0  0:00:22  0:00:12  0:00:10  45.4M
```

“Verifying uploaded kernel” will show. Enter “y” to confirm, and “kernel Upgrade done” will show.

```
Verifying uploaded kernel ... OK

Please confirm change kernel? [y/n]y
Processing upgrade ... done

Verifying files again after upgrade ... OK

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) Reboot the system.

```
C1# reboot
```

```
C1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

(4) View the current version.

```
C1# show version
```

```
C1# show version
Software version : 6.1.144 (20211117-0954)
NP Kernel version : 20211105022411
Serial number : NP-NPT-W-TW-WLJLZ9U
```

3.2.2 N-Receiver

For Kernel 20210101 or later versions, if eth0 MAC address is bigger than eth1 MAC, the system will exchange the two interfaces while upgrading. If reapplying a new license is required, please send machine.dat to N-Partner with Firmware version and Seq. No. and state that it is for Kernel 20210101 upgrading effects.

For the example of this chapter, the file transmission type is SCP/SFTP.

- (1) View the current version.

```
R1# show version
```

```
R1# show version
Software version : 6.1.144 (20211117-0954)
NP Kernel version : 20201117151936
Serial number : NP-APT-W-TM-PP-50000E
```

- (2) Upgrade Kernel.

```
R1# system kernel upgrade
```

```
R1# system kernel upgrade
```

Enter "y" to confirm.

```
Current Version is [20201117151936]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [2] SCP/SFTP.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
  [2] SCP/SFTP
  [3] HTTP/HTTPS
You Choose : 2
```

Enter target SCP path and password.

```
Please provide target SCP path such as "user@example.com:/path/file"
Your SCP Path is : root@192.168.8.189:/tmp/np_kernel.npz
Warning: Permanently added '192.168.8.189' (ECDSA) to the list of known hosts.
root@192.168.8.189's password:
```

The transmission status will show.

Please do not interrupt the transferring and upgrading process.

```
np_kernel.npz 48% 492MB 23.2MB/s 00:22 ETA
```

“Verifying uploaded kernel” will show. Enter “y” to confirm, and “kernel Upgrade done” will show.

```
Verifying uploaded kernel ... OK

Please confirm change kernel? [y/n]y
Processing upgrade ... done

Verifying files again after upgrade ... OK

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) Reboot the system.

```
R1# reboot
```

```
R1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

(4) View the current version.

```
R1# show version
```

```
R1# show version
Software version : 6.1.144 (20211117-0954)
NP Kernel version : 20211105022411
Serial number : NP-NPT-V-TW-NP500000
```

3.2.3 N-LB

For Kernel 20210101 or later versions, if eth0 MAC address is bigger than eth1 MAC, the system will exchange the two interfaces while upgrading. If reapplying a new license is required, please send machine.dat to N-Partner with Firmware version and Seq. No. and state that it is for Kernel 20210101 upgrading effects.

For the example of this chapter, the file transmission type is SZ/RZ.

- (1) View the current version.

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.144 (20211117-0954)
NP Kernel version : 20201117151936
Serial number : NP-NPT-V-TM-ZH0M1XEH
```

- (2) Upgrade Kernel.

```
LB1# system kernel upgrade
```

```
LB1# system kernel upgrade
```

Enter “y” to confirm.

```
Current Version is [20201117151936]. Do upgrade kernel ? [n]/y y
```

Choose a file transmission type; here, it is [1] SZ/RZ.

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
  [2] SCP/SFTP
  [3] HTTP/HTTPS
You Choose : 1
```

Enter “y” to transfer the file with ZMODEM.

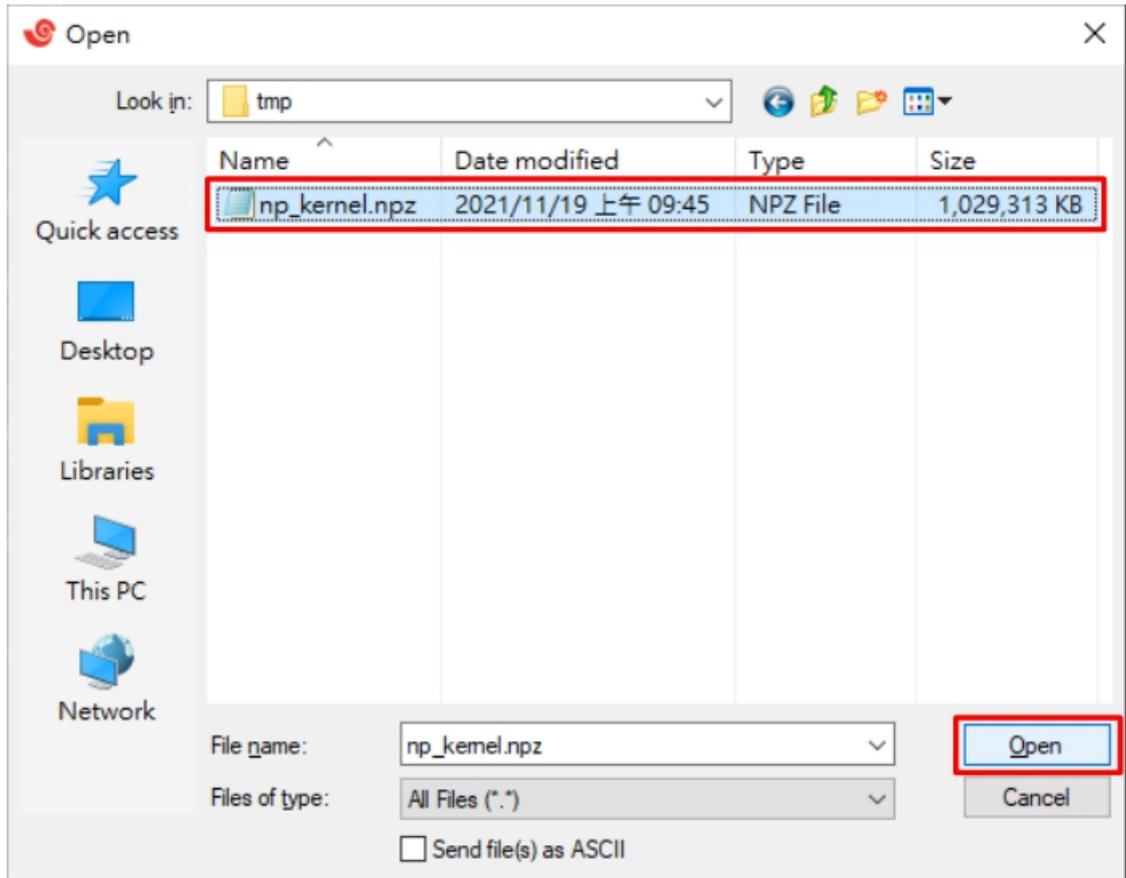
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready, any key to abort, q to quit.y
```

Enter “y” to confirm; here, the SSH Client is Xshell.

```
Do you using [XShell] as the terminal ? [y/N]y
```

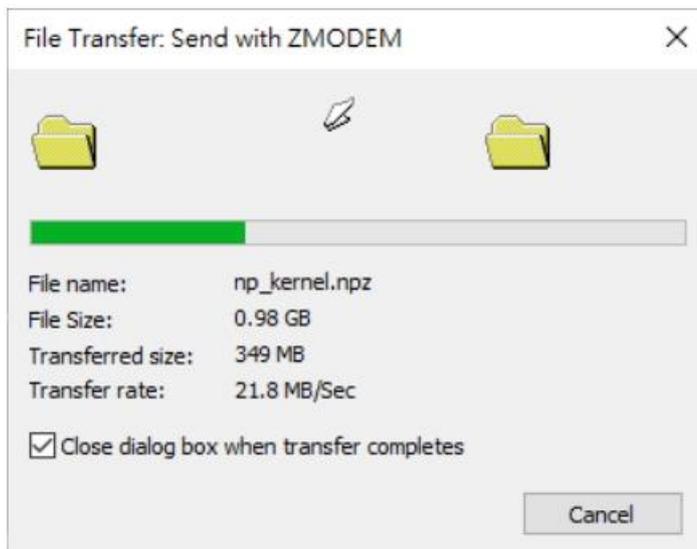
If the SSH Client is SecureCRT, enter “n.”

Select file “np_kernel.npz” and click “Open.”



The transmission status will show.

Please do not interrupt the transferring and upgrading process.



“Verifying uploaded kernel” will show. Enter “y” to confirm, and “kernel Upgrade done” will show.

```
Verifying uploaded kernel ... OK

Please confirm change kernel? [y/n]y
Processing upgrade ... done

Verifying files again after upgrade ... OK

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

- (3) Reboot the system.

```
LB1# reboot

LB1# reboot
System prepare to reboot. Please wait a second.....OK.
```

If any error messages show during upgrading, please do not execute reboot command and contact N-Partner.

- (4) View the current version.

```
LB1# show version

LB1# show version
Software version : 6.1.144 (20211117-0954)
NP Kernel version : 20211105022411
Serial number : NP-RPT-V-TM-JMGHIXGH
```



Tel : 04-23752865 Fax : 04-23757458
Sales Information : sales@npartnertech.com
Technical Support : support@npartnertech.com