

# How to transfer a file over network

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## Contents

1 Article purpose .....	1
2 Introduction .....	1
3 Installation on your target .....	1
4 Installation on your PC .....	1
5 Getting started .....	1
6 References .....	2

## 1 Article purpose

The article aims to give some information useful to start with the **scp** Linux command.

## 2 Introduction

The **scp**<sup>[1]</sup> copies files between hosts on a network. It uses **ssh**<sup>[2]</sup> (remote login program) for data transfer, uses the same authentication and provides the same security as **ssh**.

This article focuses on the file transfer between a host PC and a STMicroelectronics board over a network connection.

## 3 Installation on your target

The **scp** is installed on the STMicroelectronics images via the package **openssh**.

## 4 Installation on your PC

The package **openssh-client** must be installed on your host PC to perform a file transfer over network with the **scp**.

On Ubuntu:

```
PC $> sudo apt-get install openssh-client
```

## 5 Getting started

- Your host PC and your board are connected to your local network through
  - the [STM32MP157C-EV1 Evaluation board CN3 Ethernet connector](#)

- the [STM32MP157X-DKX Discovery kit CN8 Ethernet connector](#)
- The board IP address (*<board ip address>*) has been retrieved thanks to the [ip Linux command line](#)
- **Upload a file** (*<host file path>/<example.txt>*) **from your host PC to your board:**

```
PC $> scp <host file path>/<example.txt> root@<board ip address>:/<board file path>/
```

```
Example (assuming that <board ip address> is a.b.c.d):  
Copy the example.txt host PC file in the /home/root/ board directory  
PC $> echo "scp example: from host PC to board" > ./example.txt  
PC $> scp ./example.txt root@a.b.c.d:/home/root
```

```
Check the result on the board  
Board $> cat /home/root/example.txt  
scp example
```

- Download a file (*/<board file path>/<example.txt>*) from your board to your host PC:

```
PC $> scp root@<board ip address>:/<board file path>/<example.txt> <host file path>/
```

```
Example (assuming that <board ip address> is a.b.c.d):  
Copy the example.txt board file in the current directory of the host PC  
Board $> echo "scp example: from board to host PC" > /home/root/example.txt  
PC $> scp root@a.b.c.d:/home/root/example.txt ./
```

```
Check the result on the host PC  
Board $> cat ./example.txt  
scp example: from board to host PC
```

## 6 References

1. ↑ [scp - Linux man page](#)
2. ↑ [ssh - Linux man page](#)