

ezTCP Technical Documents

# SSH of EZL-200F

Version 1.0



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# 1 Overview

## 1.1 SSH (Secure Shell)

SSH is a type of network protocol that allows data to be exchanged using a secure channel between two networked devices. This protocol is used primarily on Linux and Unix based systems to access shell accounts.

ezTCP supports SSH2 (version 2) and this document is about SSH of EZL-200F.

## 1.2 Application to ezTCP

SSH was designed to remotely control various servers instead of Telnet. SSH of EZL-200F is also designed as the purpose and users can check status and set parameters of EZL-200F.

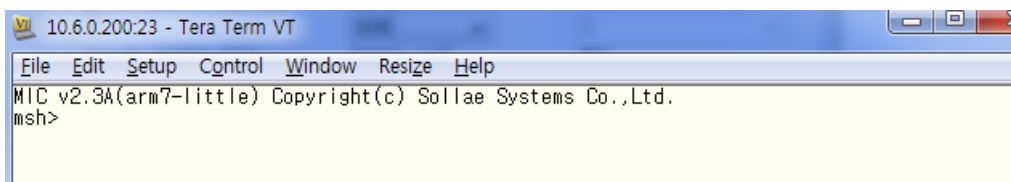
☞ *Unlike the SSH of EZL-200F, the other products (CSE-M32, M73, H20, H21, H25 and etc.) which support SSH have different purpose. Please refer to the technical document for the differences.*

## 2 Configuration

### 2.1 Activating SSH

Activation of SSH is allowed from the console of EZL-200F (TELNET or Console mode).  
Following is an example of using Telnet.

#### 2.1.1 TELNET login



```

10.6.0.200:23 - Tera Term VT
File Edit Setup Control Window Resize Help
MIC v2.3A(arm7-little) Copyright(c) Sollae Systems Co.,Ltd.
msh>

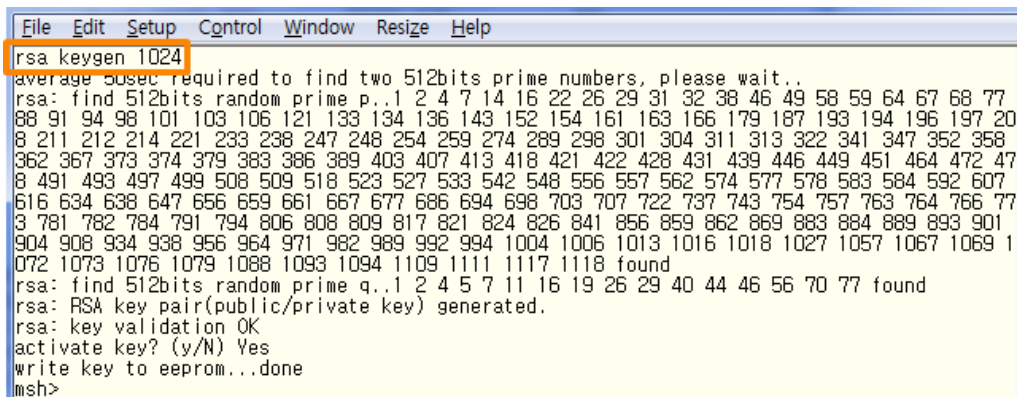
```

Figure 2-1 TELNET login

#### 2.1.2 Generation of Keys

- Generation of rsa key

Make a rsa key using 'rsa keygen [length]' command.



```

File Edit Setup Control Window Resize Help
rsa keygen 1024
average 50sec required to find two 512bits prime numbers, please wait..
rsa: find 512bits random prime p..1 2 4 7 14 16 22 26 29 31 32 38 46 49 58 59 64 67 68 77
88 91 94 98 101 103 106 121 133 134 136 143 152 154 161 163 166 179 187 193 194 196 197 20
8 211 212 214 221 233 238 247 248 254 259 274 289 298 301 304 311 313 322 341 347 352 358
362 367 373 374 379 383 386 389 403 407 413 418 421 422 428 431 439 446 449 451 464 472 47
8 491 493 497 499 508 509 518 523 527 533 542 548 556 557 562 574 577 578 583 584 592 607
616 634 638 647 656 659 661 667 677 686 694 698 703 707 722 737 743 754 757 763 764 766 77
3 781 782 784 791 794 806 808 809 817 821 824 826 841 856 859 862 869 883 884 889 893 901
904 908 934 938 956 964 971 982 989 992 994 1004 1006 1013 1016 1018 1027 1057 1067 1069 1
072 1073 1076 1079 1088 1093 1094 1109 1111 1117 1118 found
rsa: find 512bits random prime q..1 2 4 5 7 11 16 19 26 29 40 44 46 56 70 77 found
rsa: RSA key pair(public/private key) generated.
rsa: key validation OK
activate key? (y/N) Yes
write key to eeprom...done
msh>

```

Figure 2-2 making a rsa key

☞ Available length for rsa key: 512, 768, 1024, 2048

- Generation of dsa key  
Make a dsa key using 'dsa keygen' command.

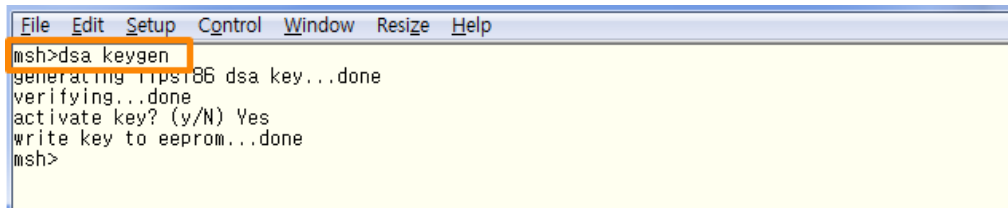


Figure 2-3 making a dsa key

- Activation of SSH  
After using 'env ext' command, input 'y' on the SSH item.

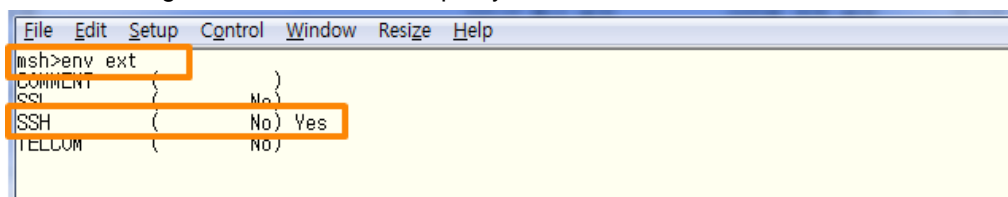


Figure 2-4 Activation of SSH

### 2.1.3 Checking the activation

If the activation is succeeded, the SSH box will be checked on ezConfig.

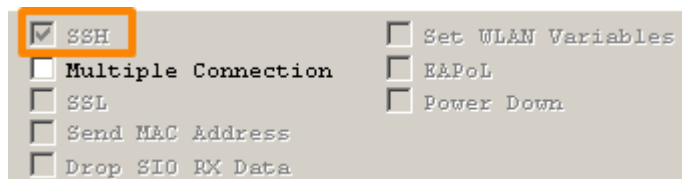


Figure 2-5 Checking the activation

☞ TELNET (TCP 23) cannot be activated when SSH is activated.

## 2.2 Setting a Password

Set a password to EZL-200F. When using SSH for login, you should enter ID and password. The ID is fixed to 'admin' and the password will be configured one via ezConfig or console.

☞ If you don't set a password, the authentication will be progressed without the password.

## 3 Using SSH

### 3.1 Logging in with a SSH client

- Run a SSH client application.
- Connect to EZL-200F with correct IP address and port number (TCP 22).

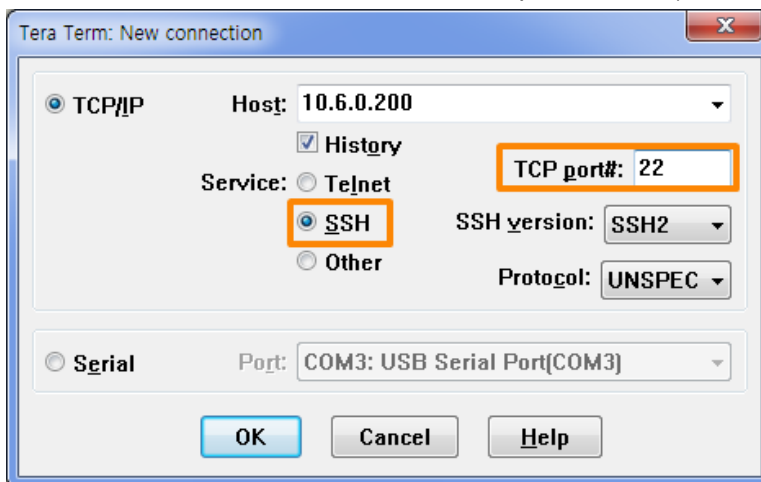


Figure 3-1 SSH connection

- Input ID and password on the authentication window.

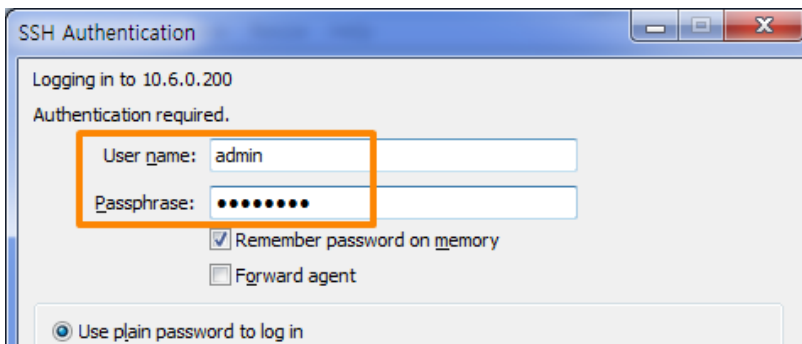


Figure 3-2 SSH authentication

## 3.2 Checking the login

If you succeeded the login via SSH, you will be allowed to check status and set parameters of EZL-200F.

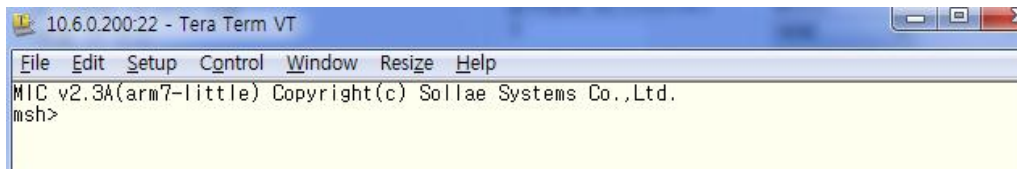


Figure 3-3 checking the login

## 4 Revision History

Date	Version	Comments	Author
2011.05.13	1.0	○ Initial writing	Roy LEE