

EC2x&AG35-Quecopen

DFOTA Upgrade Package

Making Method

LTE Module Series

Rev. EC2x&AG35-Quecopen_DFOTA Upgrade Package Making

Mehod_V1.0

Date: 2017-11-15

Status: Preliminary



Our aim is to provide customers with timely and comprehensive service. For any assistance, please contact our company headquarters:

Quectel Wireless Solutions Co., Ltd.

7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

Tel: +86 21 5108 6236

Email: info@quectel.com

Or our local office. For more information, please visit:

<http://www.quectel.com/support/sales.htm>

For technical support, or to report documentation errors, please visit:

<http://www.quectel.com/support/technical.htm>

Or email to: support@quectel.com

GENERAL NOTES

QUECTEL OFFERS THE INFORMATION AS A SERVICE TO ITS CUSTOMERS. THE INFORMATION PROVIDED IS BASED UPON CUSTOMERS' REQUIREMENTS. QUECTEL MAKES EVERY EFFORT TO ENSURE THE QUALITY OF THE INFORMATION IT MAKES AVAILABLE. QUECTEL DOES NOT MAKE ANY WARRANTY AS TO THE INFORMATION CONTAINED HEREIN, AND DOES NOT ACCEPT ANY LIABILITY FOR ANY INJURY, LOSS OR DAMAGE OF ANY KIND INCURRED BY USE OF OR RELIANCE UPON THE INFORMATION. ALL INFORMATION SUPPLIED HEREIN IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

COPYRIGHT

THE INFORMATION CONTAINED HERE IS PROPRIETARY TECHNICAL INFORMATION OF QUECTEL WIRELESS SOLUTIONS CO., LTD. TRANSMITTING, REPRODUCTION, DISSEMINATION AND EDITING OF THIS DOCUMENT AS WELL AS UTILIZATION OF THE CONTENT ARE FORBIDDEN WITHOUT PERMISSION. OFFENDERS WILL BE HELD LIABLE FOR PAYMENT OF DAMAGES. ALL RIGHTS ARE RESERVED IN THE EVENT OF A PATENT GRANT OR REGISTRATION OF A UTILITY MODEL OR DESIGN.

Copyright © Quectel Wireless Solutions Co., Ltd. 2018. All rights reserved.

About the Document

History

| Revision | Date | Author | Description |
|----------|------------|------------------------------|-------------|
| 1.0 | 2017-11-15 | Ramos ZHANG/ Thomas ZHANG | Initial |

Contents

| | |
|---|----------|
| About the Document | 3 |
| Contents | 4 |
| Figure Index | 5 |
| 1 Steps of Making DFOTA Package | 6 |
| Making targetfiles.zip files of original and target firmware..... | 6 |
| Making DFOTA Package..... | 7 |
| 1.1. | |
| 1.2. | |

Figure Index

| | |
|----------------|---|
| FIGURE 1 | 6 |
| FIGURE 2 | 7 |

Quectel
Confidential

1 Steps of Making DFOTA Package

Making targetfiles.zip files of original and target firmware

In the firmware package, the original files are collected, compressed and saved in upgrade\targetfiles.zip, which is provided for making DFOTA package. During the development process, OpenLinux users may modify the files of boot.img, rootfs and download the modified files into the module, which will make it different from the original files saved in targetfiles.zip. This will cause DFOTA package made from targetfiles.zip to fail to update. Thus, when users release their own firmware, please update targetfiles.zip file

A. Copy the original file targetfiles.zip to Ubuntu system and unzip it:

```
unzip -d ./target ./targetfiles.zip
```

Execute this command to unzip targetfiles.zip to target directory

B. Replace mdm9607-perf-boot.img file in targetfiles

Replace the two files of boot.img, recovery.img in BOOTABLE_IMAGES which is unzipped from Step A with users' mdm9607-perf-boot.img in the firmware package.



Figure 1

C. Replace rootfs

After unzipping targetfiles.zip, delete all the files in SYSTEM directory except firmware directory and all the files in firmware directory.

Then copy all the files except firmware directory in ql-ol-rootfs directory compiled in SDK to SYSTEM

directory.

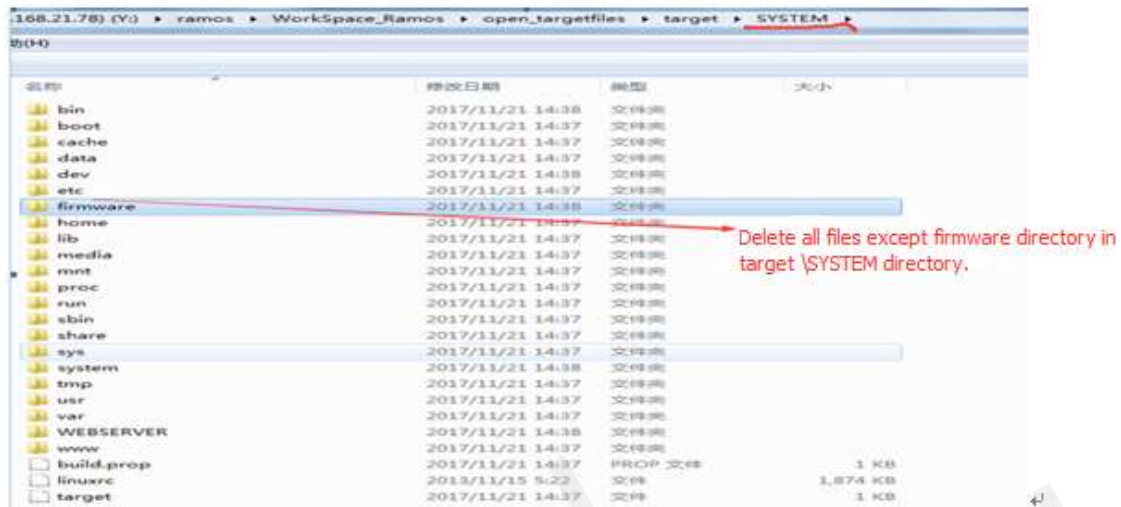


Figure 2

D. Repackage to generate targetfiles.zip

Under target directory Execute below command to repackage:

```
zip -qry0 ../targetfiles.zip ./*
```

The regenerated targetfiles.zip can be found in the upper directory of target directory.

1.2.

Making DFOTA Package

Environment: Ubuntu 14.04 64bit

A. Unzip AG35_releasetools

```
tar -xzf AG35_releasetools.tar.gz
```

B. Install the Tool

```
cd AG35_releasetools
```

Copy libbz2.so.0.* that ./bsdiff is dependent on to system library directory;

```
sudo cp -P libbz2.so.0* /lib/x86_64-linux-gnu/
```

C. Enter AG35_releasetools directory, then copy targetfiles.zip file in upgrade directory of the two different firmware packages to v1 and v2 directory respectively, which is to copy targetfiles.zip of the current running version to v1 directory and copy targetfiles.zip of the target version to v2 directory.

D. `/update_gen.sh a`

Note: Input parameters such as: < m --modem, l --linux, o --boot, a --all >, users input parameter a.

update.zip generated in this directory is the final DFOTA package. Please copy it to corresponding http,ftp servers.

Note: If it's not allowed to copy the files or execute the command, please execute chmod in this directory to add permissions.