

GSM QuecFOTA

Application Note

GSM/GPRS Module Series

Rev. GSM_QuecFOTA_Application_Note_V3.2

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7 Appendix D QuecFOTA Package Tool

7.1. The Format of Packet Tool

In the process of downloading and copying, the firmware may be damaged accidentally. So before the new firmware is uploaded to your download server, it is recommended to package the new firmware as the following format with QuecFOTA Package Tool.

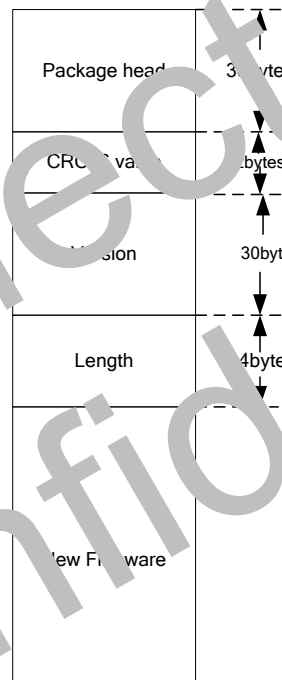


Figure 9: QuecFOTA Package Format

It is necessary to check the completeness and correctness of the new firmware before downloading. The Version field can be used to check the correctness of the new firmware version. The CRC16 field can be used to check the correctness and completeness of the downloaded package after downloading. The CRC16 is calculated with the CRC16 algorithm as **Appendix C**.

Content	Length (bytes)	Description	Example
Package Head	30	Packet head	"QuectFOTAPackageV0.1\0", If empty, then fill 0.

CRC16	2	CRC16 checksum value	Including Version, Length and new firmware
Version	30	Version of the new firmware	M10ER01A08W32\0, If empty, then fill 0.
Length	4	Size of the new firmware	
New Firmware	Length	Entire BIN file	M10ER01A08W32.BIN

7.2. QuecFOTA Package Tool

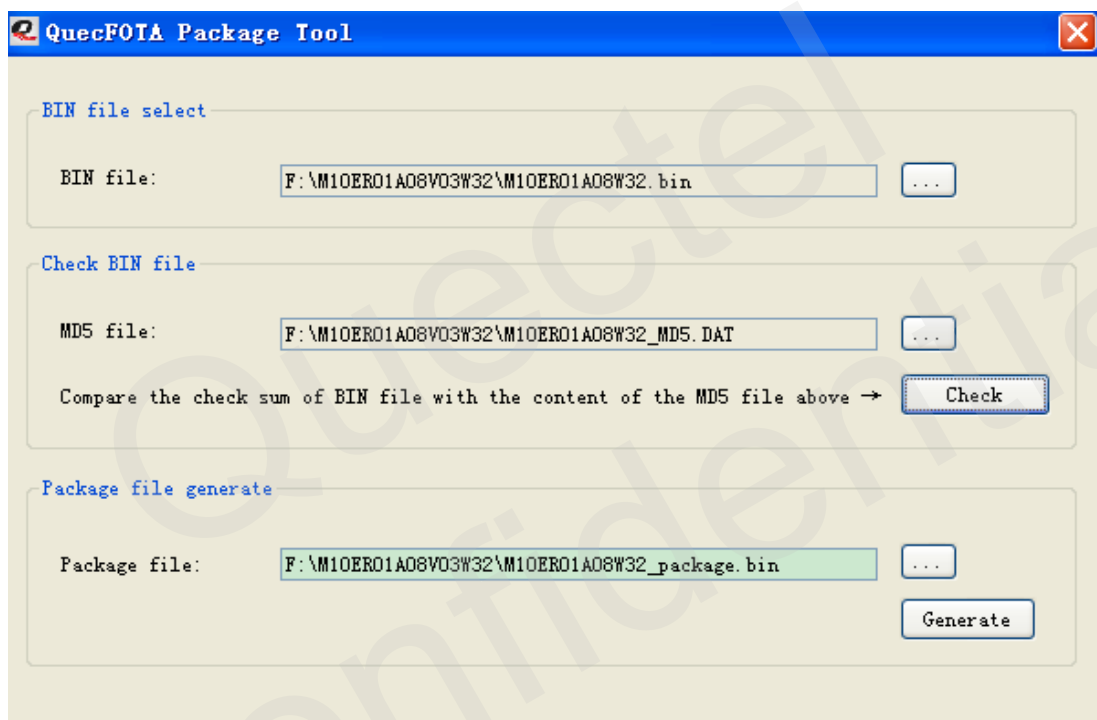


Figure 10: QuecFOTA Package Tool

The QuecFOTA package tool has three parts:

- First part is “BIN file select”. Take the M10ER01A08W32.BIN file as an example.
- Second part is “Check BIN file”.
Check whether BIN is correct or not with MD5 file. For example, select the M10ER01A08W32_MD5.DAT, then push “Check” button to check whether the M10ER01A08W32.BIN is correct or not.
- Third part is “Package file generate”. Generate the QuecFOTA package file”.
First, you can type “M10ER01A08W32_package.bin”, then push “Generate” button to generate the M10ER01A08W32_package.bin file with the M10ER01A08W32.BIN file.