

LTE Standard QuecOpen Audio Volume Adjustment API Introduction

LTE Standard Module Series

Rev. LTE_Standard_QuecOpen_Volume_Adjustment_API_Introduction

_V1.0

Date: 2020-04-15

Status: Released

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

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

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. 2020. All rights reserved.

About the Document

Revision History

Version	Date	Author	Description
1.0	2020-04-15	Gale GAO	Initial

Contents

About the Document	2
Contents	3
Table Index	4
1 Introduction	5
1.1. Applicable Modules	5
2 Audio Volume API Introduction.....	6
2.1. Audio Playback Volume Adjustment	6
2.1.1. Function.....	6
2.1.2. Routine	6
2.2. Recording Volume Adjustment.....	6
2.2.1. Function.....	6
2.2.2. Routine	6
2.3. Call Volume Level Adjustment	7
2.3.1. Function.....	7
2.3.2. Routine	7
2.4. Uplink Volume Adjustment in the Call	7
2.4.1. Function.....	7
2.4.2. Routine	7
2.5. Downlink Volume Adjustment in the Call	8
2.5.1. Function.....	8
2.5.2. Routine	8
2.6. Side Tone Volume Adjustment	8
2.6.1. Function.....	8
2.6.2. Routine	8
3 Appendix A Reference.....	9

Table Index

Table 1: Applicable Modules.....	5
Table 2: Terms and Abbreviations	9

1 Introduction

Quectel LTE Standard modules support QuecOpen® solution. This document introduces the APIs related to the audio volume adjustment of the LTE Standard QuecOpen modules. With the help of this document, customers can quickly apply related functions.

1.1. Applicable Modules

Table 1: Applicable Modules

Module Series	Module
EC2x series QuecOpen	EC25 series QuecOpen
	EC21 series QuecOpen
	EC20 R2.1 QuecOpen
EG9x series QuecOpen	EG95 series QuecOpen
	EG91 series QuecOpen
EG25-G QuecOpen	EG25-G QuecOpen

2 Audio Volume API Introduction

2.1. Playback Volume Adjustment

2.1.1. Function

Read Function	<i>ql_audplay_gain_read</i>
Description	Read playback volume of the module.
Write Function	<i>ql_audplay_gain_write</i>
Description	Set playback volume of the module.

2.1.2. Routine

Routine	<i>example_audplay_gain.c</i>
---------	-------------------------------

2.2. Recording Volume Adjustment

2.2.1. Function

Read Function	<i>ql_audrd_gain_read</i>
Description	Read recording volume of the module.
Write Function	<i>ql_audrd_gain_write</i>
Description	Set recording volume of the module.

2.2.2. Routine

Routine	<i>example_audrd_gain.c</i>
---------	-----------------------------

2.3. Call Volume Level Adjustment

2.3.1. Function

Read Function	<i>ql_clvl_read</i>
Description	Read volume level of the module.
Write Function	<i>ql_clvl_write</i>
Description	Set volume level of the module.

2.3.2. Routine

Routine	<i>example_clvl.c</i>
---------	-----------------------

2.4. Uplink Volume Adjustment in the Call

2.4.1. Function

Read Function	<i>ql_mic_gain_read</i>
Description	Read the uplink volume of the module in the call.
Write Function	<i>ql_mic_gain_write</i>
Description	Set the uplink volume of the module in the call.

2.4.2. Routine

Routine	<i>example_qmic.c</i>
---------	-----------------------

2.5. Downlink Volume Adjustment in the Call

2.5.1. Function

Read Function	<i>ql_spk_gain_read</i>
Description	Read the downlink volume of the module in the call.
Write Function	<i>ql_spk_gain_write</i>
Description	Set the downlink volume of the module in the call.

2.5.2. Routine

Routine	<i>example_qspk.c</i>
---------	-----------------------

2.6. Side Tone Volume Adjustment

2.6.1. Function

Read Function	<i>ql_sidet_read</i>
Description	Read side tone volume of the module.
Write Function	<i>ql_sidet_write</i>
Description	Set side tone volume of the module.

2.6.2. Routine

Routine	<i>example_sidet.c</i>
---------	------------------------

3 Appendix A Reference

Table 2: Terms and Abbreviations

Abbreviation	Description
API	Application Programming Interface
