



LC02H(BA)_RQN Release Notes

GNSS Module Series

Rev. LC02H(BA)_RQN_Firmware_Release_Notes_V0102S

Date: 2023-10-11



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 200233, China

Tel: +86 21 5108 6236 Email: <u>info@quectel.com</u>

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.

Disclaimer

While Quectel has made efforts to assure the accuracy of this document, unless otherwise provided by valid agreement, Quectel assumes no liability resulting from any inaccuracies or omissions in this document, or from use of the information obtained herein. Quectel reserves the right to make changes to any contents described herein and reserves the right to revise this document and to make changes from time to time in content hereof with no obligation to notify any person of revisions or changes. Before using any updated software, please read this statement carefully. By accessing or using the said software you irrevocably and unconditionally accept and confirm that you agree to be bound by this statement. In the event you disagree with any provision hereof and would not like to be bound by this statement you shall cease use of the said software immediately.

Duty of Confidentiality

The Receiving Party shall keep confidential all documentation and information provided by Quectel, except when the specific permission has been granted by Quectel. The Receiving Party shall not access or use Quectel's documentation and information for any purpose except as expressly provided herein. Furthermore, the Receiving Party shall not disclose any of the Quectel's documentation and information to any third party without the prior written consent by Quectel. For any noncompliance to the above requirements, unauthorized use, or other illegal or malicious use of the documentation and information, Quectel will reserve the right to take legal action.

Copyright

The information contained here is proprietary technical information of Quectel Wireless Solutions Co., Ltd. Transmitting, reproducing, disseminating and editing this document as well as using the content without permission are forbidden. 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. 2023. All rights reserved.



Contents

Cor	ntents		. 2
1.	Release	lease Content3	
		ote of	
		History	
		Firmware Release History	
	3.2.	New Features	. 4
	3.3.	Improved Features	. 4
		Errata	
		ns List	



1. Release Content

This document provides the Release Notes for LC02H(BA)_RQN.

The release version is LC02HBANR01A02S_RQN.

2. Take Note of

SN	Item
[1]	The default satellite constellation configuration is GPS L1 + GLONASS L1 + Galileo E1 + BDS B1I + QZSS L1.
[2]	The default UART baud rate is 115200 bps.
[3]	The validity period of GPS week number is from January 2015 to August 2034.



3. Release History

3.1. Firmware Release History

Firmware Version	Description
LC02HBANR01A02S_RQN	Mass production
LC02HBANR01A01S_RQN	Only for sample

3.2. New Features

LC02HBANR01A02S_RQN			
SN	Brief Description		
[1]	Added the \$PQTMCFGBLD command to configure the baseline distance.		
[2]	The \$PQTMSAVEPAR command added support for saving the parameters configured by the PAIR command.		
[3]	The \$PAIR513 command added support for saving the parameters configured by the PQTM command.		

3.3. Improved Features

LC02HBANR01A02S_RQN			
SN	Brief Description		
[1]	Optimized the position and heading accuracy under weak signals.		
[2]	Optimized the issue that the pitch and roll angles drift in high or low temperature environment.		
[3]	Fixed the issue that the \$PQTMCFGNMEADP command still takes effect when invalid parameters are set.		
[4]	Fixed the issue that in the \$PQTMTAR message, when the <quality> field is 6, the <usedsv> field is not 0.</usedsv></quality>		



[5]	Removed the indicators showing 1 and 2 for <quality> field in \$PQTMTAR message.</quality>		
[6]	Fixed the issue that the last field of the \$PQTMANTENNASTATUS message is not the default		
[0]	value when powered on.		
[7]	Fixed the issue that the output of heading angle and roll angle is wrong when using		
[1]	\$PQTMCFGATTBIAS command.		
[0]	Optimized the module startup logic to improve the stability of the module when it is powered		
[8]	on.		
[9]	Improved the probability of success for the fixed heading.		
[10]	Disabled the SBAS function.		
[10]	Disabled the ODAO function.		
[11]	Reduced time to first fix of heading.		

3.4. Errata

SN	Bug Description	au	1:01
/	1		



4. Functions List

Category	Item	Supported Version (Since)	Note
	GPS	LC02HBANR01A01S_RQN	/
	GLONASS	LC02HBANR01A01S_RQN	/
	Galileo	LC02HBANR01A01S_RQN	/
	BDS	LC02HBANR01A01S_RQN	/
Basic Function	QZSS	LC02HBANR01A01S_RQN	/
	1PPS	LC02HBANR01A01S_RQN	1
	AGNSS	LC02HBANR01A01S_RQN	1
	Low Power	LC02HBANR01A01S_RQN	1
	Upgrading	LC02HBANR01A01S_RQN	1
On a sight Foundtier	Antenna Detection	LC02HBANR01A01S_RQN	/
Special Function	Heading	LC02HBANR01A01S_RQN	1
Protocol	NMEA 0183	LC02HBANR01A01S_RQN	/
Interface	UART	LC02HBANR01A01S_RQN	/
Interface	UART	LC02HBANR01A01S_RQN	/



About Quectel

Quectel Wireless Solutions is the leading global supplier of cellular and GNSS modules, with a broad product portfolio covering the most recent wireless technologies of 5G, LTE/LTE-A, NB-IoT/LTE-M, UMTS/HSPA(+), GSM/GPRS and GNSS. As a professional IoT (Internet of Things) technology developer and cellular module supplier, Quectel is able to provide one-stop services for IoT cellular modules. Quectel products have been widely applied in IoT/M2M fields including smart payment, telematics and transport, smart energy, smart cities, security, wireless gateways, industry, healthcare, agriculture, and environment monitoring.

