

L86 Release Notes

GNSS Module Series

Rev.L86_Firmware_Release_Notes_V0201S

Date: 2017-07-20

1. Preamble

This document provides the Release Notes for L86 firmware version **L86NR02A01S**^[1]. It describes major changes compared to L86 firmware version **L86NR01A05S**. For more information, refer to the other documents about L86.

2. New Features

NO.	Brief description	Since
1	Supported Galileo satellites system. "GPS+GLONASS+Galileo" multi-GNSS can be enabled by PMTK command \$PMTK353,1,1,1,1,0*2B .	R02A01S
2	Added the SDK command \$PQBAUD to modify and save baudrate.	R01A03S
3	Added the SDK command \$PQ1PPS to modify output mode of 1PPS.	R01A03S
4	Added the SDK command \$PQEPE to set PQEPE sentence output.	R01A03S
5	Added packet type \$PMTK351 , \$PMTK352 , \$PMTK262 , \$PMTK285 and \$PMTK875 .	R01A03S
6	Added the SDK command \$PQTXT to set GPTXT sentence output.	R01A03S
7	Added the PMTK command \$PMTK886 to set navigation mode.	R01A03S
8	Added the SDK command \$PQECEF to set ECEFPOSVEL sentence output.	R01A04S
9	Added the SDK command \$PQODO to start or stop odometer reading.	R01A04S
10	Added the SDK command \$PQPZ90 to enable or disable switching from WGS84 to PZ-90.11.	R01A04S
11	Added the SDK command \$PQGLP to enter into or exit from GNSS low power (GLP) mode.	R01A04S
12	Added the SDK command \$PQVEL to enable or disable 3 ways velocity sentence output.	R01A04S
13	Added the PMTK command \$PMTK838 to enable or disable jamming detection function.	R01A05S
14	Added the PMTK command \$PMTK886 to set navigation mode.	R02A01S
15	Added the SDK command \$PQGEO to configure parameters of geofencing.	R02A01S
16	Added the SDK command \$PQPREC to configure decimal places of longitude, latitude and altitude in NMEA sentences	R02A01S
17	Added the SDK command \$PQJAM to enable or disable jamming detection.	R02A01S

18	Added the SDK command \$PQGBS to enable or disable sentence of GNSS satellite fault detection sentence.	R02A01S
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3. Improved Features

NO.	Brief description	Since
1	Improved 1PPS time accuracy.	R01A03S
2	Improved the positioning performance under the weak signal environment.	R01A03S
3	Improved driving performance at multipath and weak signal condition.	R02A01S
4	Optimized speed accuracy performance.	R02A01S

4. Functions

Basic Function

AIC	EASY	EPO	SBAS	Always Locate	LOCUS	PPS sync NMEA
Y ^[2]	Y	Y	Y	Y	Y	Y

SDK Command Function

PQBAUD	PQEPE	PQ1PPS	PQVEL	PQTXT	PQECEF	PQODO	PQPZ90	PQGLP
Y	Y	Y	Y	Y	Y	Y	Y	Y
PQGEO	PQPREC	PQJAM	PQGBS					
Y	Y	Y	Y					

Special Function

Jamming Detection
Y

NOTES

- ^[1] R02A01S uses NMEA v4.10 protocol, and added a new segment before “*” in RMC, GSA and GSV sentences. Please note compatibility issues with older versions.
- ^[2] “Y” means the firmware supports this function.