

LP201 - Bug #851

cat /dev/ttyS3 BDGGA BDGSV

02/27/2025 06:53 PM -

Status:	New	Start date:	02/27/2025
Priority:	High	Due date:	
Assignee:		% Done:	0%
Category:	Driver	Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
:	LP201	:	Ubuntu
CPU:	RK3576	:	V6.1.84
:	LPS3576	APP:	-
/:	-	:	100%
:	-	:	N/S
/:	01	:	YT8521SC
:	ubuntu22.04_lb201_25_01_07.img	EMMC:	-

Description

1.3. 支持的 NMEA 语句类型

模块默认支持的 NMEA 语句与 NMEA 0183 协议兼容。另外,可以通过前缀区分不同卫星系统的 NMEA 语句,如下所示:

GPS NMEA 语句的前缀为“GP”,如下所示:

- GPGGA – 全球定位系统定位数据,如时间、定位等。
- GPRMC – 推荐的最少专有 GNSS 数据。
- GPGSV – 可视的 GPS 卫星,例如可视的卫星数、卫星 ID 等。
- GPGSA – GNSS 精度因子(DOP)与有效卫星。
- GPVTG – 相对于地面的实际航向和速度。
- GPGLL – 纬度和经度。
- GPGST – GNSS 伪距误差统计。

BDS NMEA 语句的前缀为“BD”,如下所示:

- BDGGA – 全球定位系统定位数据,如时间、定位等。
- BDRMC – 推荐的最少专有 GNSS 数据。
- BDGSV – 可视的 BDS 卫星,例如可视的卫星数、卫星 ID 等。
- BDGSA – GNSS 精度因子(DOP)与有效卫星。
- BDVTG – 相对于地面的实际航向和速度。
- BDGLL – 纬度和经度。
- BDGST – GNSS 伪距误差统计。

Galileo NMEA 语句的前缀为“GA”,如下所示:

1.1. 适用模块

表 1：适用模块

模块系列	模块
ECx00x-CN	EC200A-CN
	EC200M-CN
	EC200N-CN
	EC800M-CN
-	EG800K-CN
-	EG810M-CN
-	EG915N 系列
-	EG950A-EL

备注

上表适用模块中，ECx00x-CN、EG810M-CN、EG915N 系列和 EG950A-EL 模块的 GNSS 功能可选。
有关当前使用的模块型号是否支持 GNSS，请咨询移远通信技术支持。



\$GNGGA,102236.000,3104.68802,N,12130.73049,E,1,27,0.6,109.1,M,11.5,M,,*43
\$GNGLL,3104.68802,N,12130.73049,E,102236.000,A,*49 \$GNGSA,A,3,04,06,09,11,12,14,17,19,20,22,194,195,1.0,0.6,0.8,1*3E
\$GNGSA,A,3,05,07,08,10,13,19,22,24,26,29,35,38,1.0,0.6,0.8,4*3E
\$GPGSV,3,1,12,04,22,066,25,06,56,340,37,09,35,099,31,11,39,294,41,0*6C
\$GPGSV,3,2,12,12,22,309,32,14,13,177,41,17,53,115,22,19,76,060,25,0*61
\$GPGSV,3,3,12,20,36,234,41,22,32,192,43,194,42,168,30,195,69,057,28,0*61
\$BDGSV,4,1,16,03,51,200,38,05,14,253,39,07,84,216,32,08,57,232,28,0*7A
\$BDGSV,4,2,16,10,75,292,38,13,47,231,35,19,63,109,24,22,32,187,38,0*74
\$BDGSV,4,3,16,24,08,298,38,26,15,251,41,29,40,089,27,35,60,345,28,0*72
\$BDGSV,4,4,16,38,73,247,44,40,77,107,27,44,21,306,26,45,06,199,19,0*76
\$GNRMC,102236.000,A,3104.68802,N,12130.73049,E,0.00,0.00,260225,,A,V*05 \$GNVTG,0.00,T,,M,0.00,N,0.00,K,A*23
\$GNZDA,102236.000,26,02,2025,00,00*4F \$GPTXT,01,01,01,ANTENNA OK*35
\$GNGGA,102237.000,3104.68802,N,12130.73049,E,1,27,0.6,109.1,M,11.5,M,,*42
\$GNGLL,3104.68802,N,12130.73049,E,102237.000,A,*48 \$GNGSA,A,3,04,06,09,11,12,14,17,19,20,22,194,195,1.0,0.6,0.8,1*3E
\$GNGSA,A,3,05,07,08,10,13,19,22,24,26,29,35,38,1.0,0.6,0.8,4*3E
\$GPGSV,3,1,12,04,22,066,25,06,56,340,37,09,35,099,31,11,39,294,41,0*6C

\$GPGSV,3,2,12,12,22,309,32,14,13,177,42,17,53,115,25,19,76,060,25,0*65
\$GPGSV,3,3,12,20,36,234,41,22,32,192,43,194,42,168,30,195,69,057,28,0*61
\$BDGSV,4,1,16,03,51,200,38,05,14,253,39,07,84,216,33,08,57,232,28,0*7B
\$BDGSV,4,2,16,10,75,292,38,13,47,231,35,19,63,109,24,22,33,187,39,0*74

2BDGNGGAGNGGAGPSHLONASSBDBDGSV

Files				
clipboard-202502271846-1rmqj.png	131 KB	02/27/2025		
clipboard-202502271849-zphan.png	59.6 KB	02/27/2025		
clipboard-202502271849-edryq.png	198 KB	02/27/2025		
Quectel_ECx00x&EG800K&EG810M&EG915N&EG950A_GNSS_4.0.0.pdf	482 KB	02/27/2025		