



**LOCOSYS**



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## Human & Cars Seamless Positioning

Solution

Platform

Module

## Automotive Dead Reckoning Technology

The LOCOSYS **ST-1612i-DB/DG** Dead Reckoning (DR) module is the perfect solution for automotive application. The **ST-1612i-DB/DG** is embedded 3D accelerometer, 3D gyroscope Micro-Electro-Mechanical Systems (MEMS) sensor, equipped with DR software, and powered by STMicroelectronics Teseo III.

GNSS Module	GNSS					Memory		Interface	* Application				Dimension(mm)
	GP	QZSS	GA	GL	BD	Flash	ROM						
<b>MTK</b>													
MC-1010-2RE	●	●					○	UART	①	③	④		10.1 x 9.7 x 2.0
MC-1513-2RE	●	●					○	UART	①		④		15 x 13 x 2.2
MC-1612-2RE	●	●					○	UART		②	③	④	16 x 12.2 x 2.2
MC-1613-2RE	●	●					○	UART		②	④		15.9 x 13.1 x 2.2
MC-1010	●	●				○		UART	①	③	④		10.1 x 9.7 x 2.0
MC-1513	●	●				○		UART/I <sup>2</sup> C	①		④		15 x 13 x 2.2
MC-1612	●	●				○		UART		②	③	④	16 x 12.2 x 2.2
MC-1613	●	●				○		UART		②	④		15.9 x 13.1 x 2.2
MC-1010-B/-G	●	●	●	●	●	○		UART	①	③	④		10.1 x 9.7 x 2.0
MC-1513-B/-G	●	●	●	●	●	○		UART/I <sup>2</sup> C	①		④		15 x 13 x 2.2
MC-1612-B/-G	●	●	●	●	●	○		UART		②	③	④	16 x 12.2 x 2.2
MC-1612-B2/-G2	●	●	●	●	●	○		UART		②	④		16 x 12.2 x 2.2
MC-1612A-B2/-G2	●	●	●	●	●	○		UART		②	④		16 x 12.2 x 2.2
MC-1613-B/-G	●	●	●	●	●	○		UART		②	④		15.9 x 13.1 x 2.2
MC-1722-DB/-DG	●	●	●	●	●	○		UART/I <sup>2</sup> C/USB/CAN Bus		②			22.4 x 17 x 2.2
<b>STMicro</b>													
ST-1612-G	●	●	●	●		○		UART/I <sup>2</sup> C/USB/CAN Bus		②			16 x 12.2 x 2.2
ST-1612-T	●	●	●	●		○		UART/I <sup>2</sup> C/USB/CAN Bus				⑤	16 x 12.2 x 2.2
ST-1612-B2/-G2	●	●	●	●	●	○		UART/CAN Bus	①	②	④		16 x 12.2 x 2.3
ST-1612-DB/-DG	●	●	●	●	●	○		UART/CAN Bus		②			16 x 12.2 x 2.3
ST-1722A-DB/-DG	●	●	●	●	●	○		UART/CAN Bus		②			22.4 x 17 x 2.2
<b>HED</b>													
HD-1010	●	●				○		UART	①	②			10.1 x 9.7 x 2.0
HD-1612	●	●				○		UART		②			16 x 12.2 x 2.2
HD-1010-BA	●	●			●	○		UART	①	②			10.1 x 9.7 x 2.0
HD-1612-BA	●	●			●	○		UART		②			16 x 12.2 x 2.2
<b>CSR (SiRF)</b>													
S4-0606	●	●				○		UART/I <sup>2</sup> C/SPI	①				6 x 6 x 1.35
S4-1513-2R	●	●				○		UART		②			15 x 13 x 2.2
S4-1612-2R	●	●				○		UART		②			16 x 12.2 x 2.2
S4-1513-2E	●	●				○		UART		②			15 x 13 x 2.2
S4-1612-2E	●	●				○		UART		②			16 x 12.2 x 2.2
S5-0707-2R	●	●		●		○		UART	①				7.15 x 7.15 x 1.8
S5-1010-2R	●	●		●		○		UART	①				10.1 x 9.7 x 2.0
S5-1612-2E	●	●		●		○		UART		②			16 x 12.2 x 2.2
<b>Techtotop</b>													
TD-1612-DB	●	●			●		○	UART/I <sup>2</sup> C		②			16 x 12.2 x 2.4
<b>Combo Module</b>													
<b>GNSS</b>													
<b>Memory</b>													
<b>Interface</b>													
<b>* Application</b>													
<b>Dimension(mm)</b>													
<b>MTK</b>													
GB-1916-C	●	●	●	●	●	○		UART	①	②			19 x 16 x 1.9
GGB-1916-C	●	●	●	●	●	○	○	UART	①	②			19 x 16 x 1.9
<b>High-Precision</b>													
<b>GNSS</b>													
<b>Heading Accuracy</b>													
<b>Interface</b>													
<b>* Application</b>													
<b>Dimension(mm)</b>													
MTK	RTK-4671	●											
							<0.5°	USB/UART	①	②	④		71 x 46 x 7.6

\* Application : ① HandHeld ② Automotive ③ Drone ④ Marine ⑤ Timing

Specifications are subject to change without notice.

Mini PCIe Module	GNSS					Memory		Interface	Application	Dimension(mm)
	GP	QZSS	GA	GL	BD	Flash	ROM			
<b>MTK</b>										
LS26030/31-2RE	●	●					○	USB	① ②	50.8 x 28.5 x 3.2
LS26030/31	●	●				○	○	USB	① ②	50.8 x 28.5 x 3.2
LS26030-B/-G	●	●	●	●	●	○		USB	① ②	50.8 x 28.5 x 3.2
<b>GNSS Smart Antenna</b>										
<b>MTK</b>										
LS2003x-2RE	●	●					○	USB/UART/RS232	① ② ③ ④	30 x 30 x 8
LS2003x	●	●				○	○	USB/UART/RS232	① ② ③ ④	30 x 30 x 8
LS2003x-B/-G	●	●	●	●	●	○		USB/UART/RS232	① ② ③ ④	30 x 30 x 8
<b>STMicro</b>										
LS2009G-G	●	●	●	●		○		UART/RS232	① ② ④	30 x 30 x 8
LS2009G-T	●	●	●	●		○		UART/RS232	① ② ⑤	30 x 30 x 8
LS2009G-B2/-G2	●	●	●	●	●	○		UART/RS232	① ②	30 x 30 x 8
<b>u-blox</b>										
LS2007xU	●	●					○	USB/UART/RS232	① ② ③ ④	30 x 30 x 8
LS2007xU-B/-G	●	●	●	●	●	○	○	USB/UART/RS232	① ② ③ ④	30 x 30 x 8
LS20070P	●	●					○	USB	① ② ⑤	30 x 30 x 8
LS20070P-B/-G	●	●	●	●	●	○	○	USB	① ② ⑤	30 x 30 x 8
<b>MTK</b>										
LS2003C-2RE	●	●					○	UART	① ②	15.5 x 15.5 x 6.6
LS2003C	●	●				○	○	UART	① ②	15.5 x 15.5 x 6.6
LS2003C-B/-G	●	●	●	●	●	○		UART	① ②	15.5 x 15.5 x 6.6
<b>MTK</b>										
LS2003D-2RE	●	●					○	UART	① ②	21 x 17 x 7.2
LS2003D	●	●				○		UART	① ②	21 x 17 x 7.2
LS2003D-B/-G	●	●	●	●	●	○		UART	① ②	21 x 17 x 7.2
<b>MTK</b>										
LS2003E-2RE	●	●					○	UART	① ②	22 x 22 x 7.5
LS2003E	●	●				○	○	UART	① ②	22 x 22 x 7.5
LS2003E-B/-G	●	●	●	●	●	○		UART	① ②	22 x 22 x 7.5
<b>MTK</b>										
LS2003H-2RE	●	●					○	UART	①	14 x 9.6 x 1.93
<b>MTK</b>										
LS2003J-2RE	●	●					○	UART	①	16 x 12.2 x 2.6
LS2003J-G	●	●	●	●		○		UART	①	16 x 12.2 x 2.6
<b>CSR (SiRF)</b>										
LS2022A	●	●				○		UART	①	17 x 6 x 6.25
LS20229-A	●	●				○		UART	①	12 x 12 x 5.9

GNSS Mouse	GNSS					Interface	Connector	Application	Dimension(mm)
	GP	QZSS	GA	GL	BD				
<b>MTK</b>									
LS2303x-2RE	●	●				USB/RS232	USB/PS2/RJ11	② ③ ④	49 x 41 x 14.1
LS2303x	●	●				USB/RS232	USB/PS2/RJ11	② ③ ④	49 x 41 x 14.1
LS2303x-B/-G	●	●	●	●	●	USB/RS232	USB/PS2/RJ11	② ③ ④	49 x 41 x 14.1
<b>u-blox</b>									
LS2307xU	●	●				USB/RS232	USB/PS2/RJ11	② ③ ④	49 x 41 x 14.1
LS2307xU-B/-G	●	●	●	●	●	USB/RS232	USB/PS2/RJ11	② ③ ④	49 x 41 x 14.1
LS23070P	●	●				USB	USB	② ③ ④ ⑤	49 x 41 x 14.1
LS23070P-B/-G	●	●	●	●	●	USB	USB	② ③ ④ ⑤	49 x 41 x 14.1
<b>STMicro</b>									
LS2309x-G	●	●	●	●		RS232	PS2/RJ11	②	49 x 41 x 14.1
LS2309G-B2/-G2	●	●	●	●	●	RS232	PS2/RJ11	② ④	49 x 41 x 14.1



## B310(GPS+BDS)/G310(GPS+GLONASS)

### Product Introduction

B310/G310 Embedded Box, in a true sense, achieves positioning accuracy and provides important information like car engine speed, water temperature, fuel, speed, battery power and etc.

It keeps the positioning of vehicle all the way seamless and within 1.5 meters of precision, regardless of in urban canyon or in the tunnel.

Working together with its APP management software, B310/G310 is perfect for corporate rental cars, fleet management and armored cars with valuables and so on.



## GW-60

Tracking every step you make & knowing how fast you are .



### FEATURES

- ◆ Top 10 speed smart record
- ◆ Intelligent session speed report
- ◆ 10-seconds average speed display
- ◆ Multi-functional push button operation
- ◆ High sensitivity GPS performance
- ◆ Rechargeable lithium-ion battery
- ◆ Time mode (Alarm, Timer, Stopwatch)
- ◆ Google Earth KML/GPX format support
- ◆ Built in flash memory to store 1,000,000 GPS logged points
- ◆ Waterproof 50 m / 5 ATM



# Worldwide Connection

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**LOCOSYS**

20F.-13, No.79, Sec. 1, Xintai 5th Rd.  
Xizhi Dist., New Taipei City 22101  
Taiwan R.O.C.  
[www.locosystech.com](http://www.locosystech.com)

**Tel** : 886-2-8698-3698  
**Fax** : 886-2-8698-3699  
**Mail** : [info@locosystech.com](mailto:info@locosystech.com)

