LOCOSYS

GNSS Wireless & Communication

LOCOSYS GNSS / RTK PRODUCT CATALOUGE 2024

RoHS

Halogen FREE

IATF 16949:2016

ABOUT LOCOSYS

LOCOSYS Technology Inc., established in 2005 and headquartered in New Taipei City, Taiwan, is a leading global supplier of GNSS (Global Navigation Satellite System) modules and solutions. For decades, LOCOSYS has been deeply engaged in the global positioning market. The company offers GNSS modules, RTK high-precision positioning/orientation solutions, IMU inertial navigation systems, and 4G/5G CORS base station systems.

In 2016, LOCOSYS became the first company in Taiwan to upgrade to the IATF 16949:2016 / ISO 9001:2015 quality management system. Equipped with a complete production line, the company was recognized as the "Best Collaborative Technology Partner" for GNSS/IMU combined navigation positioning modules in the automotive industry in the same year. In 2020, LOCOSYS was awarded the title of "Best Collaborative Technology Partner" for unmanned RTK high-precision positioning and navigation in Taiwan.

LOCOSYS' solutions excel not only in traditional AIoT and high-precision positioning applications but have also made significant progress in the fields of AI and autonomous driving. They drive advancements in unmanned vehicles, smart cities, drones, and inspection/surveying/exploration applications. By integrating AI technology, LOCOSYS is providing smarter and more efficient positioning services to customers worldwide.

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01 GNSS Module Solution

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

GPS Module	Satellite						Memory	Position Accuracy	VCC	Interface	Dimension (mm)
MC-1010-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2
MC-1010	●	-	-	-	●	-	F	2.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2
MC-1612-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART	16 x 12.2 x 2.2
MC-1612	●	-	-	-	●	-	F	2.5m	3.3V	UART	16 x 12.2 x 2.2

MC-1010-2RE

MEDIATEK

MC-1010

MEDIATEK

MC-1612-2RE

MEDIATEK

MC-1612

MEDIATEK

GNSS Module	Satellite						Memory	Position Accuracy	VCC	Interface	Dimension (mm)
MC-1010-G/B	●	●	●	●	●	-	F	2.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2
MC-1010-G2	●	●	●	●	●	-	F	2.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2.2

MC-1010-G

MEDIATEK

MC-1010-B

MEDIATEK

MC-1010-G2

MEDIATEK

MC-1612-G

MEDIATEK

MC-1612-B

MEDIATEK

	L1 GNSS Module	Satellite										Memory	Timing Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
		L1	L5	L1	L5	L1	L5	L1	L5	L1	L5						
	MC-1010-18Q	●	-	●	-	●	-	●	-	●	-	-	F	±10ns	1.5m	1.8V	UART/(I²C)	10.1 x 9.7 x 2.2
	MC-1010-52Q	●	-	●	-	●	-	●	-	●	-	-	F	±10ns	1.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2.2
*	MG-1010-52Q	●	-	●	-	●	-	●	-	●	-	-	F	±10ns	1.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2.2
*	MG-1612-52Q	●	-	●	-	●	-	●	-	●	-	-	F	±10ns	1.5m	3.3V	UART/(I²C)	16 x 12.2 x 2.4

MC-1010-18Q

MEDIATEK

MC-1010-52Q

MEDIATEK

MG-1010-52Q

AIROHA

MG-1612-52Q

AIROHA

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

	L1 + IRNSS GNSS Module	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5	IRSS	Memory	Timing Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
	MC-1010-V3a	● -	● -	● -	● -	● -	●	F	±10ns	2.5m	1.8V	UART/(I²C)	10.1 x 9.7 x 2.2
	MC-1010-V3b	● -	● -	● -	● -	● -	●	F	±10ns	2.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2.2
*	MC-1612-V3b	● -	● -	● -	● -	● -	●	F	±10ns	2.5m	3.3V	UART	16 x 12.2 x 2.4
*	MC-1612a-V3b	● -	● -	● -	● -	● -	●	F	±10ns	2.5m	3.3V	UART	16 x 12.2 x 2.4
*	BK-1612-1N	● -	● -	● -	● -	● -	●	F	±20ns	1.5m	3.3V	UART	16 x 12.2 x 2.4
*	SOR-1612-1N	● -	● -	● -	● -	● -	●	F	±10ns	1.5m	3.3V	UART	16 x 12.2 x 2.4

MC-1010-V3a

MEDIATEK

MC-1010-V3b

MEDIATEK

MC-1612-V3b

MEDIATEK

MC-1612a-V3b

MEDIATEK

BK-1612-1N

BEKEN

SOR-1612-1N

SONY

	L1 + L5 GNSS Module	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5	Memory	Timing Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
	MC-1010i-V2b	● ●	● -	● ●	● ●	● ●	-	F	±10ns	1.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2.2
	MC-1010-V2a	● ●	● -	● ●	● ●	● ●	-	F	±10ns	1.5m	1.8V	UART/(I²C)	10.1 x 9.7 x 2.2
*	MC-1010-V2b	● ●	● -	● ●	● ●	● ●	-	F	±10ns	1.5m	3.3V	UART/(I²C)	10.1 x 9.7 x 2.2
*	MC-1612-V2b	● ●	● -	● ●	● ●	● ●	-	F	±10ns	1.5m	3.3V	UART	16 x 12.2 x 2.4
	MC-1612a-V2b	● ●	● -	● ●	● ●	● ●	-	F	±10ns	1.5m	3.3V	UART	16 x 12.2 x 2.4
*	BK-1612-15	● ●	● -	● ●	● ●	● ●	-	F	±20ns	1.5m	3.3V	UART	16 x 12.2 x 2.4
*	SO-1612-15	● ●	● -	● ●	● ●	● ●	-	F	±10ns	1.5m	3.3V	UART	16 x 12.2 x 2.4

MC-1010i-V2b

MEDIATEK

MC-1010-V2a

MEDIATEK

MC-1010-V2b

MEDIATEK

MC-1612-V2b

MEDIATEK

MC-1612a-V2b

MEDIATEK

BK-1612-15

BEKEN

SO-1612-15

SONY

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

PPS Timing Module	Satellite						Memory	Timing Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
MC-1722-T	●	●	●	●	●	-	F	±2ns	2.5m	3.3V	UART	22.4 x 17.2 x 2.5
ST-1612-T	●	●	-	●	●	-	F	±5ns	2.5m	3.3V	UART	16 x 12.2 x 2.2
ST-1612i-GT	●	●	-	●	-	-	F	±3.9ns	2.5m	3.3V	UART	16 x 12.2 x 2.2
ST-1612i-BT	●	-	●	●	●	-	F	±3.9ns	2.5m	3.3V	UART	16 x 12.2 x 2.2

MC-1722-T

MEDIATEK

ST-1612-T

STMicroelectronics

ST-1612i-GT

STMicroelectronics

ST-1612i-BT

STMicroelectronics

ADR/UDR Module	Satellite						DR Mode	Position Accuracy	VCC	Interface	Dimension (mm)
MC-1612-DG	●	●	●	●	●	-	ADR/UDR	2.5m	3.3V	UART	16 x 12.2 x 2.4
MC-1612-DB	●	●	●	●	●	-	ADR/UDR	2.5m	3.3V	UART	16 x 12.2 x 2.4
ST-1612i-DGX	●	●	●	●	●	-	ADR	1.8m	3.3V	UART	16 x 12.2 x 2.3

	UDR (L1+L5) Module	Satellite										DR Mode	Position Accuracy	VCC	Interface	Dimension (mm)
		L1	L5	L1	L5	L1	L5	L1	L5	L1	L5					
*	MG-1612AD-DR	●	●	●	-	●	●	●	●	●	●	-	UDR	1.5m	3.3V	UART	16 x 12.2 x 2.4

MG-1612AD-DR

AIROHA

MC-1612-DG

MEDIATEK

MC-1612-DB

MEDIATEK

ST-1612i-DGX

STMicroelectronics

02 Smart Antenna Solution

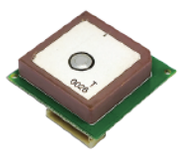
※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

GPS Smart Antenna	Satellite						Memory	Position Accuracy	VCC	Interface	Dimension (mm)
LS2003C-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART	15.5 x 15.5 x 6.6
LS2003D-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART	21 x 17 x 7.2
LS2003E-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART	22 x 22 x 8.4
LS2003C	●	-	-	-	●	-	F	2.5m	3.3V	UART	15.5 x 15.5 x 6.6
LS2003D	●	-	-	-	●	-	F	2.5m	3.3V	UART	21 x 17 x 7.2
LS2003E	●	-	-	-	●	-	F	2.5m	3.3V	UART	22 x 22 x 8.4
LS20030-2RE	●	-	-	-	●	-	R	2.5m	3.3V	USB	30 x 30 x 8
LS20031-2RE	●	-	-	-	●	-	R	2.5m	3.3V	TTL	30 x 30 x 8
LS20032-2RE	●	-	-	-	●	-	R	2.5m	3.3V	RS232	30 x 30 x 8
LS20030U	●	-	-	-	●	-	F	2.5m	3.3V	USB	30 x 30 x 8
LS20031U	●	-	-	-	●	-	F	2.5m	3.3V	TTL	30 x 30 x 8
LS20032U	●	-	-	-	●	-	F	2.5m	3.3V	RS232	30 x 30 x 8

LS2003C-2RE
LS2003C
LS20030U

LS2003D-2RE
LS2003D
LS20031U

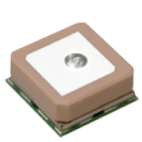


LS2003E-2RE
LS2003E
LS20032U

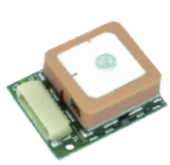
LS2003x-2RE

GNSS Smart Antenna	Satellite							Position Accuracy	VCC	Interface	Dimension (mm)
LS2003J-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	16 x 12.8 x 2.8
LS2003C-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	15.5 x 15.5 x 6
LS2003D-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	21 x 17 x 7.2
LS2003C-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	22 x 22 x 8.4
LS20030U-G	●	●	-	●	●	-	F	2.5m	3.3V	USB	30 x 30 x 8
LS20031U-G	●	●	-	●	●	-	F	2.5m	3.3V	TTL	30 x 30 x 8
LS20032U-G	●	●	-	●	●	-	F	2.5m	3.3V	RS232	30 x 30 x 8
LS20030U-B	●	-	●	●	●	-	F	2.5m	3.3V	USB	30 x 30 x 8
LS20031U-B	●	-	●	●	●	-	F	2.5m	3.3V	TTL	30 x 30 x 8
LS20032U-B	●	-	●	●	●	-	F	2.5m	3.3V	RS232	30 x 30 x 8

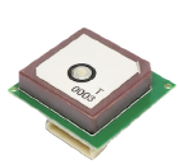
LS2003J-G



LS2003C-G

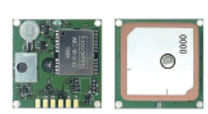


LS2003D-G



LS2003E-G

LS2003xU-G

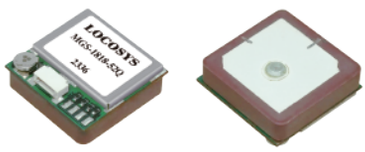


LS2003xU-B

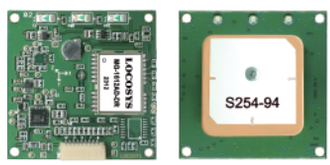
※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

	L1 Smart Antenna	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		Memory	Position Accuracy	VCC	Interface	Dimension (mm)
*	LC20030-52Q	● -	● -	● -	● -	● -	-	F	1.5m	3.3V	USB	38 x 38 x 7.9
*	LC20031-52Q	● -	● -	● -	● -	● -	-	F	1.5m	3.3V	TTL	38 x 38 x 7.9
*	LC20032-52Q	● -	● -	● -	● -	● -	-	F	1.5m	3.3V	RS232	38 x 38 x 7.9
*	MGS-1812-52Q	● -	● -	● -	● -	● -	-	F	1.5m	3.3V	UART	18.3 x 18.4 x 7.4

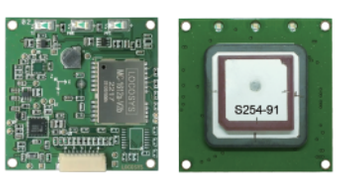


MGS-1812-52Q

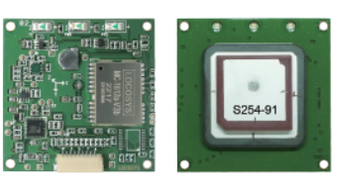


LC2003x-52Q

	L1 + L5 Smart Antenna	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		Memory	Position Accuracy	VCC	Interface	Dimension (mm)
*	LC20030-V2	● ●	● -	● ●	● ●	● ●	-	F	1.5m	3.3V	USB	38 x 38 x 7.9
*	LC20031-V2	● ●	● -	● ●	● ●	● ●	-	F	1.5m	3.3V	TTL	38 x 38 x 7.9
*	LC20032-V2	● ●	● -	● ●	● ●	● ●	-	F	1.5m	3.3V	RS232	38 x 38 x 7.9
*	LC20030-V3	● -	● -	● -	● -	● -	●	F	2.5m	3.3V	USB	38 x 38 x 7.9
*	LC20031-V3	● -	● -	● -	● -	● -	●	F	2.5m	3.3V	TTL	38 x 38 x 7.9
*	LC20032-V3	● -	● -	● -	● -	● -	●	F	2.5m	3.3V	RS232	38 x 38 x 7.9
	LS2003H-V2	● ●	● -	● ●	● ●	● ●	-	F	1.5m	3.3V	UART/USB	14 x 9.6 x 2
	LS2003H-V3	● -	● -	● -	● -	● -	●	F	1.5m	3.3V	UART/USB	14 x 9.6 x 2



LC2003x-V2

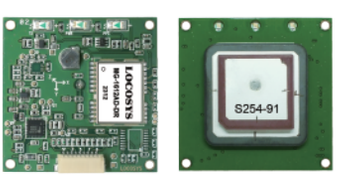


LC2003x-V3

LS2003H-V2

LS2003H-V3

	L1 + L5 + DR Smart Antenna	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		Memory	Position Accuracy	VCC	Interface	Dimension (mm)
*	LC20030-35AD	● ●	● -	● ●	● ●	● ●	-	F	1.5m	5.0V	USB	38 x 38 x 7.9
*	LC20031-35AD	● ●	● -	● ●	● ●	● ●	-	F	1.5m	3.3V	TTL	38 x 38 x 7.9
*	LC20032-35AD	● ●	● -	● ●	● ●	● ●	-	F	1.5m	5.0V	RS232	38 x 38 x 7.9



LC2003x-35AD

03 Mouse Receiver Solution

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

GPS Mouse Receiver	Satellite						Position Accuracy	VCC	Interface	Connector	Dimension (mm)
LS23030-2RE	●	-	-	-	●	-	2.5m	5V	USB	USB	49 x 41 x 14.1
LS23032-2RE	●	-	-	-	●	-	2.5m	5V	RS232	PS2	49 x 41 x 14.1
LS23036-2RE	●	-	-	-	●	-	2.5m	5V	RS232	RJ11	49 x 41 x 14.1
LS23030	●	-	-	-	●	-	2.5m	5V	USB	USB	49 x 41 x 14.1
LS23032	●	-	-	-	●	-	2.5m	5V	RS232	PS2	49 x 41 x 14.1
LS23036	●	-	-	-	●	-	2.5m	5V	RS232	RJ11	49 x 41 x 14.1

GNSS Mouse Receiver	Satellite						Position Accuracy	VCC	Interface	Connector	Dimension (mm)
LS23030-G	●	●	●	●	●	-	2.5m	5V	USB	USB	49 x 41 x 14.1
LS23032-G	●	●	●	●	●	-	2.5m	5V	RS232	PS2	49 x 41 x 14.1
LS23036-G	●	●	●	●	●	-	2.5m	5V	RS232	RJ11	49 x 41 x 14.1

GNSS + DR Mouse Receiver	Satellite						Position Accuracy	VCC	Interface	Connector	Dimension (mm)
LS23030-UDG	●	●	●	●	●	-	2.5m	5V	USB	USB	49 x 41 x 14.1
LS23032-UDG	●	●	●	●	●	-	2.5m	5V	RS232	PS2	49 x 41 x 14.1
LS23036-UDG	●	●	●	●	●	-	2.5m	5V	RS232	RJ11	49 x 41 x 14.1

LS2303x-2RE

LS2303x

LS2303x-G

LS2303x-UDG

	L1 Mouse Receiver	Satellite L1	L5	L1	L5	L1	L5	L1	L5	L1	L5		Position Accuracy	VCC	Interface	Connector	Dimension (mm)
*	LU3030-52Q	●	-	●	-	●	-	●	-	●	-	-	1.5m	5V	USB	USB	
*	LU3032-52Q	●	-	●	-	●	-	●	-	●	-	-	1.5m	5V	RS232	PS2	52 x 57 x 17
*	LU3036-52Q	●	-	●	-	●	-	●	-	●	-	-	1.5m	5V	RS232	RJ11	52 x 57 x 17

	L1 + L5 Mouse Receiver	Satellite											Position Accuracy	VCC	Interface	Connector	Dimension (mm)
*	LU23030-V2	●	●	●	-	●	●	●	●	●	●	-	1.5m	3.3V	USB	USB	52 x 57 x 17
*	LU23032-V2	●	●	●	-	●	●	●	●	●	●	-	1.5m	3.3V	RS232	PS2	52 x 57 x 17
*	LU23036-V2	●	●	●	-	●	●	●	●	●	●	-	1.5m	3.3V	RS232	RJ11	52 x 57 x 17
*	LU23030-V3	●	-	●	-	●	-	●	-	●	-	●	2.5m	3.3V	USB	USB	52 x 57 x 17
*	LU23032-V3	●	-	●	-	●	-	●	-	●	-	●	2.5m	3.3V	RS232	PS2	52 x 57 x 17
*	LU23036-V3	●	-	●	-	●	-	●	-	●	-	●	2.5m	3.3V	RS232	RJ11	52 x 57 x 17

	L1 + L5 + DR Mouse Receiver	Satellite L1	L5	L1	L5	L1	L5	L1	L5	L1	L5		Position Accuracy	VCC	Interface	Connector	Dimension (mm)
*	LU23030-35AD	●	●	●	-	●	●	●	●	●	●	-	1.5m	5V	USB	USB	52 x 57 x 17
*	LU23032-35AD	●	●	●	-	●	●	●	●	●	●	-	1.5m	5V	RS232	PS2	52 x 57 x 17
*	LU23036-35AD	●	●	●	-	●	●	●	●	●	●	-	1.5m	5V	RS232	RJ11	52 x 57 x 17

LS2303x-52Q

LS2303x-Vx

LS2303x-AD

04 Mini PCI-E / M.2 Card

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ✱ : NEW ※ R : ROM F : FLASH

GPS Mini PCI-e Card	Satellite						Memory	Position Accuracy	VCC	Interface	Dimension (mm)
LS26030-2RE	●	-	-	-	●	-	R	2.5m	3.3V	USB	50.8 x 28.5 x 3.2
LS26031-2RE	●	-	-	-	●	-	R	2.5m	3.3V	USB	26.65 x 28.5 x 3.2
LS26030	●	-	-	-	●	-	F	2.5m	3.3V	USB	50.8 x 28.5 x 3.2
LS26031	●	-	-	-	●	-	F	2.5m	3.3V	USB	26.65 x 28.5 x 3.2

GNSS Mini PCI-e Card	Satellite						Memory	Position Accuracy	VCC	Interface	Dimension (mm)
LS26030-G/-B	●	●	●	●	●	-	F	2.5m	3.3V	USB	50.8 x 28.5 x 3.2
LS26031-G/-B	●	●	●	●	●	-	F	2.5m	3.3V	USB	26.65 x 28.5 x 3.2
LS26030-15R	●	●	●	●	●	-	F	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	USB	50.8 x 28.5 x 3.2
LS26031-15R	●	●	●	●	●	-	F	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	USB	26.65 x 28.5 x 3.2

	M.2 Card	Satellite									Memory	Position Accuracy	VCC	Interface	Dimension (mm)
		L1	L5	L1	L5	L1	L5	L1	L5	L1	L5						
	M.2-V2b	●	●	●	-	●	●	●	●	●	●	-	F	1.5m	3.3V	M.2/USB	41.9 x 22 x 4.1
	M.2-15R	●	●	●	-	●	●	●	●	●	●	-	F	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	M.2/USB	41.9 x 22 x 4.1
*	M.2-35AD	●	●	●	-	●	●	●	●	●	●	-	F	1.5m	3.3V	M.2/USB	41.9 x 22 x 4.1
*	M.2-R35AD	●	●	●	-	●	●	●	●	●	●	-	F	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	M.2/USB	41.9 x 22 x 4.1

Mini PCI-E Card

M.2 Card

05 RTK Solution

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

	RTK L1+L5 Module	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		P / R / Y	Position Accuracy	VCC	Interface	Dimension (mm)
*	RTK-1010	● ●	● -	● ●	● ●	● ●	-	✓	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	UART	10.1 x 9.7 x 2.2
*	RTK-1612	● ●	● -	● ●	● ●	● ●	-	✓	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	UART	16 x 12.2 x 2.4
*	BKR-1612	● ●	● -	● ●	● ●	● ●	●	✓	GNSS: 1m CEP RTK: 1cm+1ppm (CEP50)	3.3V	UART	16 x 12.2 x 2.4
*	SOR-1612	● ●	● -	● ●	● ●	● ●	-	✓	GNSS: 1m CEP RTK: 1cm+1ppm (CEP50)	3.3V	UART	16 x 12.2 x 2.4

RTK-1010

RTK-1612

BKR-1612

SOR-1612

	RTK + DR Module	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		P / R / Y	DR Function	Position Accuracy	VCC	Interface	Dimension (mm)
*	RTK-1612AD-DR	●	●	●	●	●	-	✓	UDR	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	UART	16 x 12.2 x 2.4
*	RTK-1612AB-DR	●	●	●	●	●	-		UDR	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	UART	16 x 12.2 x 2.4

RTK-1612AD-DR

RTK-1612AB-DR

	RTK board (L1+L5)	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		IRSS	MEMS Accuracy	UBX binary for drone	Heading Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
	RTK-4057-MHPD	● ●	● -	● ●	● ●	● ●	-				0.1°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	USB	57 x 40 x 1
	RTK-DUAL-A	● ●	● -	● ●	● ●	● ●	-				0.1°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	UART	50 x 42 x 21
*	RTK-DUAL-B	● ●	● -	● ●	● ●	● ●	-		✓		0.1°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	UART	50 x 42 x 21
*	RTK-DUAL-C	● ●	● -	● ●	● ●	● ●	-			✓	0.1°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	UART	50 x 42 x 21

	GNSS board (L1+L5)	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		Heading Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
	GNSS-DUAL	● ●	● -	● ●	● ●	● ●	-	0.1°	1.5m	3.3V	UART	50 x 42 x 21

RTK-DUAL

GNSS-DUAL

RTK-4057-MHPD

	RTK USB Dongle	Satellite L1 L5	L1 L5	L1 L5	L1 L5	L1 L5		P / R / Y	Operation System	Position Accuracy	VCC	Interface	Dimension (mm)
*	RTK-15D	● ●	● -	● ●	● ●	● ●	-	✓	Andriod	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	USB TypeC	37.85 x 27.5 x 13

RTK-15D

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

	RTK System	Satellite															4G LTE	Ethernet	Position Accuracy	VCC	Interface	Dimension (mm)
		L1	L2	L5	L1	L2	L5	L1	L2	L5	L1	L2	L5	L1	L2	L5						
*	RTK-M300	●	-	●	●	-	-	●	-	●	●	-	●	●	-	●	-	✓	✓	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	Computer	185 x 120 x 45
*	RTK-M980	●	●	●	●	●	-	●	●	●	●	-	●	●	●	●	-	✓	✓	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	Computer	185 x 120 x 45
*	RTK-GB10-4B	●	●	●	●	●	-	●	●	●	●	-	●	●	●	●	-	✓	✓	0.8 cm + 1ppm Vertical : 1.5 cm + 1ppm	3.3V	Computer	227 x 118 x 35
*	RTK-GB10-WB	●	●	●	●	●	-	●	●	●	●	-	●	●	●	●	-		✓	0.8 cm + 1ppm Vertical : 1.5 cm + 1ppm	3.3V	Computer	227 x 118 x 35
*	RTK-GB30	●	●	●	●	●	-	●	●	●	●	-	●	●	●	●	-		✓	0.8 cm + 1ppm Vertical : 1.5 cm + 1ppm	3.3V	Andriod	120 x 100 x 46

RTK-M300 / RTK-M980

RTK-GB10 -4B -WB

RTK-GB30

	HAWK (Drone Solution)	Satellite										E-COMPASS	Platform Support	Position Accuracy	VCC	Interface	Dimension (mm)
		L1	L5	L1	L5	L1	L5	L1	L5	L1	L5						
	HAWK-R1	●	●	●	-	●	●	●	●	●	●	-		Pixhawk (PX4) Ardupilot	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	TTL	46 x 46 x 72.5
*	HAWK-R2	●	●	●	-	●	●	●	●	●	●	-	✓	Pixhawk (PX4) Ardupilot	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	TTL	46 x 46 x 72.5

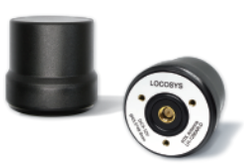
HAWK

	RTK Antenna	Satellite															Antenna Type	VDC	Interface	Dimension (mm)
		L1	L2	L5	L1	L2	L5	L1	L2	L5	L1	L2	L5	L1	L2	L5				
	LH-105A2-B	●	-	●	●	-	-	●	-	●	●	-	●	●	-	●	●	Helix (L1+L5)	2 ~ 6V	SMA	27.5 (D) x 59 (H)
	LH-105AR-D	●	-	●	●	-	-	●	-	●	●	-	●	●	-	●	●	Helix (L1+L5)	3 ~ 12V	SMA	43.5 (D) x 40.8 (H)
	LH-105AR-DC	●	-	●	●	-	-	●	-	●	●	-	●	●	-	●	●	Helix (L1+L5)	3 ~ 12V	SMA	48 (D) x 33 (H)
*	LH-1256AR-D	●	●	●	●	●	-	●	●	●	●	-	●	●	●	●	●	Helix (L1+L2+L5)	3 ~ 12V	SMA	43.5 (D) x 40.8 (H)
	LP-105AR-C	●	-	●	●	-	-	●	-	●	●	-	●	●	-	●	●	Patch (L1+L5)	3 ~ 5V	SMA	86.8 x 65 x 23
	LS-125-A	●	●	●	●	●	-	●	●	●	●	-	●	●	●	●	●	Survey (L1+L2+L5)	3 ~ 12V	SMA	Φ160 x 66.5
*	LS-125F-A	●	●	●	●	●	-	●	●	●	●	-	●	●	●	●	●	Survey (L1+L2+L5)	3 ~ 12V	SMA	Φ132 x 55.14

LH-105A2-B

LH-105AR-D

LH-105AR-C



LH-1256AR-D

LP-105AR-C

LS-125-A

LS-125F-A

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS

※ ★ : HOT SALE ★ : NEW ※ R : ROM F : FLASH

RTK Receiver for drone	Satellite										E-COMPASS	Position Accuracy	VCC	Interface	Dimension (mm)
	L1	L5	L1	L5	L1	L5	L1	L5	L1	L5					
LS23231	●	●	●	-	●	●	●	●	●	●	-	✓	0.01m + 1ppm CEP (horizontal) 0.015m + 1ppm CEP (vertical)	5V	TTL	41.2 x 49.2 x 45

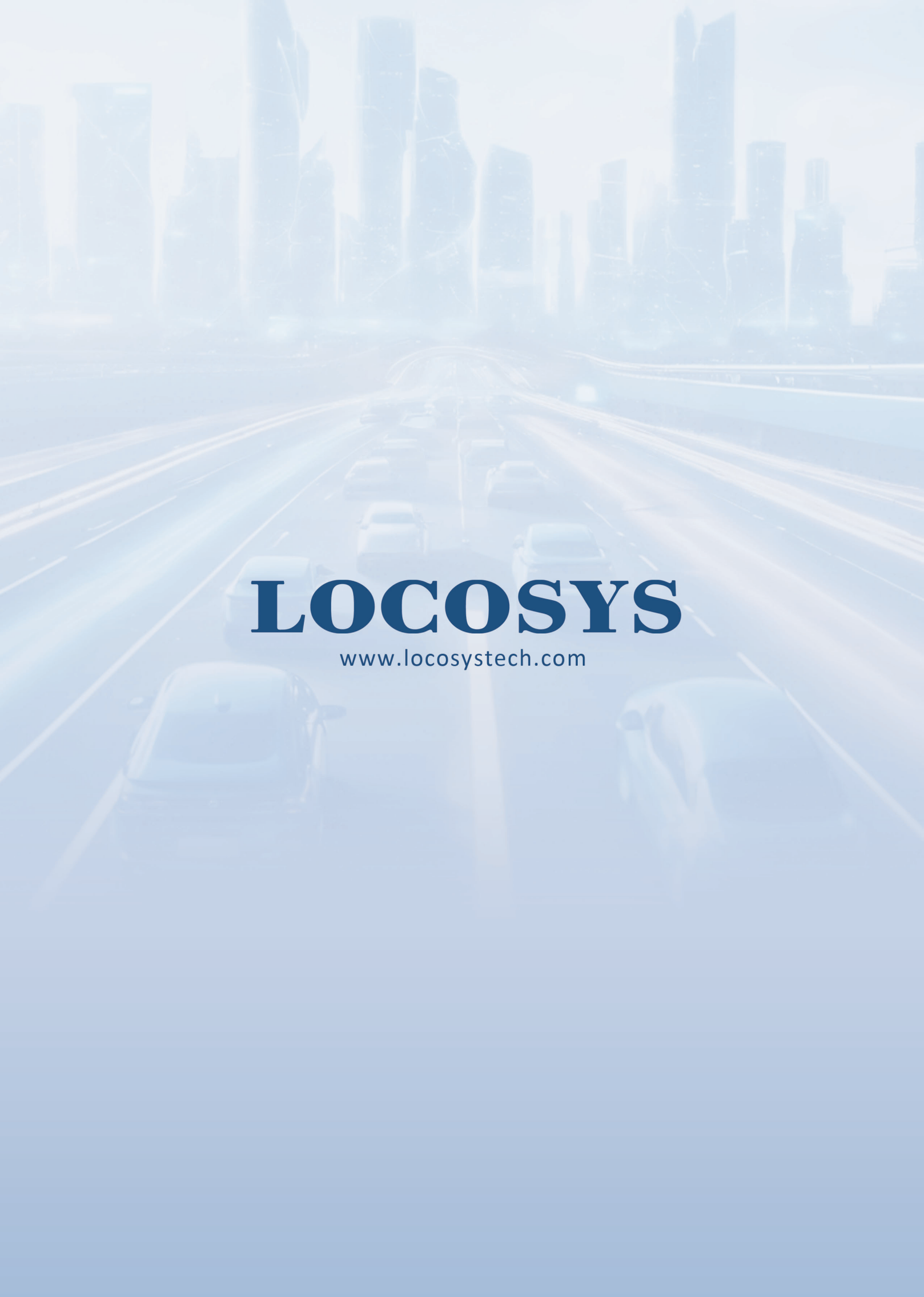
RTK Receiver for UDR	Satellite										Position Accuracy	VCC	Interface	Connector	Dimension (mm)
	L1	L5	L1	L5	L1	L5	L1	L5	L1	L5					
LS23236	●	●	●	-	●	●	●	●	●	●	-	0.01m + 1ppm CEP (horizontal) 0.015m + 1ppm CEP (vertical)	5V	TTL	RJ11	41.2 x 49.2 x 45

LS23231 / LS23236

06 USB Dongle

	USB Dongle	Satellite										Memory	Position Accuracy	VCC	Interface	Dimension (mm)
		L1	L5	L1	L5	L1	L5	L1	L5	L1	L5					
*	UB-52Q	●	-	●	-	●	-	●	-	●	-	-	F	1.5m	3.3V	USB	85.5 x 32.95 x 19.35
*	UB-V2b	●	●	●	-	●	●	●	●	●	●	-	F	1.5m	3.3V	USB	85.5 x 32.95 x 19.35
*	UB-15R	●	●	●	-	●	●	●	●	●	●	-	F	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	USB	85.5 x 32.95 x 19.35
*	UB-35AD	●	●	●	-	●	●	●	●	●	●	-	F	1.5m	3.3V	USB	85.5 x 32.95 x 19.35
*	UB-R35AD	●	●	●	-	●	●	●	●	●	●	-	F	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3V	USB	85.5 x 32.95 x 19.35

USB Dongle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