

LOCOSYS GNSS / RTK PRODUCT CATALOGUE

2024



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/(I ² C)	10.1 x 9.7 x 2
MC-1010	●	-	-	-	●	-	F	2.5m	3.3V	UART/(I ² C)	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/(I ² C)	10.1 x 9.7 x 2
MC-1010-G2	●	●	●	●	●	-	F	2.5m	3.3V	UART/(I ² C)	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/(I ² C)	10.1 x 9.7 x 2.2
MC-1010-52Q	●	-	●	-	●	-	●	-	●	-	-	F	±10ns	1.5m	3.3V	UART/(I ² C)	10.1 x 9.7 x 2.2
* MG-1010-52Q	●	-	●	-	●	-	●	-	●	-	-	F	±10ns	1.5m	3.3V	UART/(I ² C)	10.1 x 9.7 x 2.2
* MG-1612-52Q	●	-	●	-	●	-	●	-	●	-	-	F	±10ns	1.5m	3.3V	UART/(I ² C)	16 x 12.2 x 2.4



MC-1010-18Q
MEDIATEK



MC-1010-52Q
MEDIATEK



MG-1010-52Q
AIROHA



MG-1612-52Q
AIROHA

L1 + IRNSS GNSS Module	Satellite								IRSS	Memory	Timing Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
	L1	L5	L1	L5	L1	L5	L1	L5							
MC-1010-V3a	●	-	●	-	●	-	●	-	●	F	±10ns	2.5m	1.8V	UART/(I ² C)	10.1 x 9.7 x 2.2
MC-1010-V3b	●	-	●	-	●	-	●	-	●	F	±10ns	2.5m	3.3V	UART/(I ² C)	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								Memory	Timing Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)	
	L1	L5	L1	L5	L1	L5	L1	L5							
MC-1010i-V2b	●	●	●	-	●	●	●	●	-	F	±10ns	1.5m	3.3V	UART/(I ² C)	10.1 x 9.7 x 2.2
MC-1010-V2a	●	●	●	-	●	●	●	●	-	F	±10ns	1.5m	1.8V	UART/(I ² C)	10.1 x 9.7 x 2.2
* MC-1010-V2b	●	●	●	-	●	●	●	●	-	F	±10ns	1.5m	3.3V	UART/(I ² C)	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
ST



ST-1612i-GT
ST



ST-1612i-BT
ST

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
ST

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



RTK-1010



RTK-1612



BKR-1612



SOR-1612



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



RTK-1612AD-DR



RTK-1612AB-DR



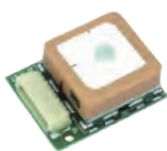
02 Smart Antenna Solution

※ ● GPS ● GLONASS ● BEIDOU ● GALILEO ● QZSS ● IRNSS
 ※ ★ :HOT SALE ★ :NEW ※ R: ROM F: FLASH

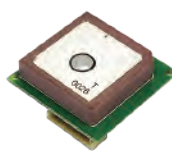
GPS Smart Antenna	Satellite						Memory	Position Accuracy	VCC	Interface	Dimension (mm)
LS2003C-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART	15.5 x 15.5 x 6.6
LS2003D-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART	21 x 17 x 7.2
LS2003E-2RE	●	-	-	-	●	-	R	2.5m	3.3V	UART	22 x 22 x 8.4
LS2003C	●	-	-	-	●	-	F	2.5m	3.3V	UART	15.5 x 15.5 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

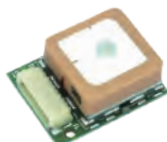
GNSS Smart Antenna	Satellite						Position Accuracy	VCC	Interface	Dimension (mm)	
LS2003J-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	16 x 12.8 x 2.8
LS2003C-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	15.5 x 15.5 x 6
LS2003D-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	21 x 17 x 7.2
LS2003C-G	●	●	-	●	●	-	F	2.5m	3.3V	UART	22 x 22 x 8.4
LS20030U-G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

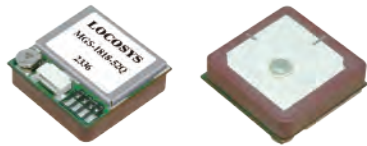


LS2003xU-G



LS2003xU-B

L1 Smart Antenna	Satellite								Memory	Position Accuracy	VCC	Interface	Dimension (mm)	
	L1	L5	L1	L5	L1	L5	L1	L5						
* 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

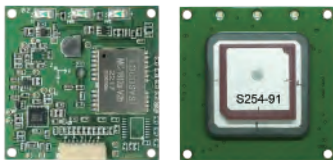


MGS-1812-52Q

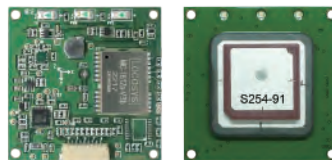


LC2003x-52Q

L1 + L5 Smart Antenna	Satellite								Memory	Position Accuracy	VCC	Interface	Dimension (mm)	
	L1	L5	L1	L5	L1	L5	L1	L5						
* 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

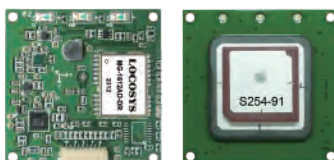


LS2003H-V2



LS2003H-V3

L1 + L5 + DR Smart Antenna	Satellite								Memory	Position Accuracy	VCC	Interface	Dimension (mm)	
	L1	L5	L1	L5	L1	L5	L1	L5						
* 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										Position Accuracy	VCC	Interface	Connector	Dimension (mm)	
	L1	L5	L1	L5	L1	L5	L1	L5	L1	L5						
* LU3030-52Q	●	-	●	-	●	-	●	-	●	-	-	1.5m	5V	USB	USB	52 x 57 x 17
* 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										Position Accuracy	VCC	Interface	Connector	Dimension (mm)	
	L1	L5	L1	L5	L1	L5	L1	L5	L1	L5						
* 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)
	GPS	GLONASS	BEIDOU	GALILEO	QZSS	IRNSS					
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)
	GPS	GLONASS	BEIDOU	GALILEO	QZSS	IRNSS					
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	1cm (< 1.5 m CEP)	3.3V	USB	50.8 x 28.5 x 3.2
LS26031-15R	●	●	●	●	●	-	F	1cm (< 1.5 m CEP)	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						
M.2-V2b	●	●	●	-	●	●	●	●	-	F	1.5m	3.3V	M.2/USB	41.9 x 22 x 4.1
M.2-15R	●	●	●	-	●	●	●	●	-	F	1cm (< 1.5 m CEP)	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	1cm (< 1.5 m CEP)	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 board (L1+L5)	Satellite						IRSS	MEMS Accuracy	UBX binary for drone	Heading Accuracy	Position Accuracy	VCC	Interface	Dimension (mm)
	L1	L5	L1	L5	L1	L5								
RTK-4057-MHPD	●	●	●	-	●	●	●	●	-	0.1°	1cm (< 1.5 m CEP)	3.3V	USB	57 x 40 x 1
RTK-DUAL-A	●	●	●	-	●	●	●	●	-	0.1°	1cm (< 1.5 m CEP)	3.3V	UART	50 x 42 x 21
* RTK-DUAL-B	●	●	●	-	●	●	●	●	✓	0.1°	1cm (< 1.5 m CEP)	3.3V	UART	50 x 42 x 21
* RTK-DUAL-C	●	●	●	-	●	●	●	●	✓	0.1°	1cm (< 1.5 m CEP)	3.3V	UART	50 x 42 x 21

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



RTK-15D

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	●	-	●	●	-	-	●	-	●	-	●	-	●	-	●	-	●	-	✓	✓	1cm (< 1.5 m CEP)	3.3V	Computer	185 x 120 x 45
* RTK-M980	●	●	●	●	-	-	●	●	●	-	●	-	●	●	●	-	●	-	✓	✓	1cm (< 1.5 m CEP)	3.3V	Computer	185 x 120 x 45
* RTK-GB10-4B	●	●	●	●	-	-	●	●	●	-	●	-	●	●	●	-	●	-	✓	Wi-Fi	1cm (< 1.5 m CEP)	3.3V	Computer	227 x 118 x 35
* RTK-GB10-WB	●	●	●	●	-	-	●	●	●	-	●	-	●	●	●	-	●	-	-	Wi-Fi	1cm (< 1.5 m CEP)	3.3V	Computer	227 x 118 x 35
* RTK-GB30-4WB	●	●	●	●	-	-	●	●	●	-	●	-	●	●	●	-	●	-	✓	Wi-Fi	1cm (< 1.5 m CEP)	3.3V	Andriod	120 x 100 x 46
* RTK-GB30-WB	●	●	●	●	-	-	●	●	●	-	●	-	●	●	●	-	●	-	-	Wi-Fi	1cm (< 1.5 m CEP)	3.3V	Andriod	120 x 100 x 46



RTK-M300 / RTK-M980



RTK-GB10-4B / WB



RTK-GB30-4WB / WB

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	1cm (< 1.5 m CEP)	3.3V	TTL	46 x 46 x 72.5
* HAWK-R2	●	●	●	-	●	●	●	●	●	●	-	✓	Pixhawk (PX4) Ardupilot	1cm (< 1.5 m CEP)	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							
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

RTK Receiver for drone	Satellite								E-COMPASS	Position Accuracy	VCC	Interface	Dimension (mm)	
	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						
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						
* 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	1cm (< 1.5 m CEP)	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	1cm (< 1.5 m CEP)	3.3V	USB	85.5 x 32.95 x 19.35



USB Dongle

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