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- ◆ **01 Module Solution**
- ◆ **02 Smart Antenna Solution**
- ◆ **03 Mouse Receiver**
- ◆ **04 Timing Module**
- ◆ **05 PCI-E / M.2 Card**
- ◆ **06 Dead Reckoning**
- ◆ **07 RTK Solution**

Index



Module Solution



GPS module

GP GL BD GA QZSS IR ROM Flash Position Accuracy VCC Interface Dimension(mm)

MC-1010-2RE



2.5m

3.3v

UART

10.1 x 9.7 x 2.0

MC-1612-2RE



2.5m

3.3v

UART

16.0 x 12.2 x 2.2

MC-1010



2.5m

3.3v

UART

10.1 x 9.7 x 2.0

MC-1612



2.5m

3.3v

UART

16.0 x 12.2 x 2.2

GNSS module

GP GL BD GA QZSS IR ROM Flash Position Accuracy VCC Interface Dimension(mm)

 MC-1010-G/-B	     						○	2.5m	3.3v	UART	10.1 x 9.7 x 2.0
 MC-1612-G/-B	     						○	2.5m	3.3v	UART	16.0 x 12.2 x 2.2
MC-1612-G2	     						○	2.5m	3.3v	UART	16.0 x 12.2 x 2.2

Sub-meter module (1.8V)		GP	GL	BD	GA	QZSS	IR	ROM	Flash	Position Accuracy	VCC	Interface	Dimension(mm)
MC-1010-V2a									○	1.5m	1.8v	UART/I ² C	10.1 x 9.7 x 2.2
MC-1010-V3a									○	1.5m	1.8v	UART/I ² C	10.1 x 9.7 x 2.2
MC-1010-18Q									○	1.5m	1.8v	UART/I ² C	10.1 x 9.7 x 2.2

Sub-meter module (3.3V)		GP	GL	BD	GA	QZSS	IR	ROM	Flash	Position Accuracy	VCC	Interface	Dimension(mm)
MC-1010-V2b									○	1.5m	3.3v	UART	10.1 x 9.7 x 2.2
MC-1010-V3b									○	1.5m	3.3v	UART	10.1 x 9.7 x 2.2
MC-1612-V2b									○	1.5m	3.3v	UART	16.0 x 12.2 x 2.4
MC-1612-V3b									○	1.5m	3.3v	UART	16.0 x 12.2 x 2.4
MC-1010-52Q									○	1.5m	3.3v	UART/I ² C	10.1 x 9.7 x 2.2
MC-1612-52Q									○	1.5m	3.3v	UART/I ² C	16.0 x 12.2 x 2.4

Smart Antenna Solution



GPS Smart antenna

GP GL BD GA QZSS IR ROM Flash Position Accuracy VCC Interface Dimension(mm)

Model	GP	GL	BD	GA	QZSS	IR	ROM	Flash	Position Accuracy	VCC	Interface	Dimension(mm)
LS2003C-2RE	█	▢	▢	▢	█	▢	○		2.5m	3.3v	UART	15.5 x 15.5 x 6.6
LS2003D-2RE	█	▢	▢	▢	█	▢	○		2.5m	3.3v	UART	21.0 x 17.0 x 7.2
LS2003E-2RE	█	▢	▢	▢	█	▢	○		2.5m	3.3v	UART	22.0 x 22.0 x 8.4
LS2003J-2RE	█	▢	▢	▢	█	▢	○		2.5m	3.3v	UART	16.0 x 12.2 x 2.8
LS2003C	█	▢	▢	▢	█	▢		○	2.5m	3.3v	UART	15.5 x 15.5 x 6.6
LS2003D	█	▢	▢	▢	█	▢		○	2.5m	3.3v	UART	21.0 x 17.0 x 7.2
LS2003E	█	▢	▢	▢	█	▢		○	2.5m	3.3v	UART	22.0 x 22.0 x 8.4
LS20030-2RE	█	▢	▢	▢	█	▢	○		2.5m	3.3v	USB	30.0 x 30.0 x 8.0
LS20031-2RE	█	▢	▢	▢	█	▢	○		2.5m	3.3v	TTL	30.0 x 30.0 x 8.0
LS20032-2RE	█	▢	▢	▢	█	▢	○		2.5m	3.3v	RS232	30.0 x 30.0 x 8.0

GPS Smart antenna

	GP	GL	BD	GA	QZSS	IR	ROM	Flash	Position Accuracy	VCC	Interface	Dimension(mm)
LS20030U									2.5m	3.3v	UART	15.5 x 15.5 x 6.6
LS20031U									2.5m	3.3v	UART	21.0 x 17.0 x 7.2
LS20032U									2.5m	3.3v	UART	22.0 x 22.0 x 8.4

GNSS Smart antenna

GP GL BD GA QZSS IR ROM Flash Position Accuracy VCC Interface Dimension(mm)

LS2003J-G



2.5m

3.3v

UART

16.0 x 12.2 x 2.8

LS2003C-G



2.5m

3.3v

UART

15.5 x 15.5 x 6.0

LS2003D-G



2.5m

3.3v

UART

15.5 x 15.5 x 6.0

LS2003E-G



2.5m

3.3v

UART

22.0 x 22.0 x 8.4

LS20030U-G



2.5m

3.3v

USB

30.0 x 30.0 x 8.0

LS20031U-G



2.5m

3.3v

TTL

30.0 x 30.0 x 8.0

LS20032U-G



2.5m

3.3v

RS232

30.0 x 30.0 x 8.0

LS20030U-B



2.5m

3.3v

USB

30.0 x 30.0 x 8.0

LS20031U-B



2.5m

3.3v

TTL

30.0 x 30.0 x 8.0

LS20032U-B



2.5m






























































3.3v

RS232

30.0 x 30.0 x 8.0

Sub-meter Smart antenna

GP GL BD GA QZSS IR ROM Flash Position Accuracy VCC Interface Dimension(mm)

 LC20030-V2	     			1.5m	3.3v	USB	38 x 38 x 8.5 mm
 LC20031-V2	     			1.5m	3.3v	TTL	38 x 38 x 8.5 mm
 LC20032-V2	     			1.5m	3.3v	RS232	38 x 38 x 8.5 mm
LC20030-V3	     			1.5m	3.3v	USB	38 x 38 x 8.5 mm
LC20031-V3	     			1.5m	3.3v	TTL	38 x 38 x 8.5 mm
LC20032-V3	     			1.5m	3.3v	RS232	38 x 38 x 8.5 mm
 LS2003H-V2	     			1.5m	3.3v	UART/USB	14.0 x 9.6 x 2.0
 LS2003H-V3	     			1.5m	3.3v	UART/USB	14.0 x 9.6 x 2.0

Mouse Receiver



GPS mouse receiver

GP GL BD GA QZSS IR

Position Accuracy

VCC

Interface

Connector

Dimension(mm)

LS23030-2RE



2.5m

5v

USB

USB

49.0 x 41.0 x 14.1

LS23032-2RE



2.5m

5v

RS232

PS2

49.0 x 41.0 x 14.1

LS23036-2RE



2.5m

5v

RS232

RJ11

49.0 x 41.0 x 14.1

LS23030



2.5m

5v

USB

USB

49.0 x 41.0 x 14.1

LS23032



2.5m

5v

RS232

PS2

49.0 x 41.0 x 14.1

LS23036



2.5m

5v

RS232

RJ11

49.0 x 41.0 x 14.1

GNSS mouse receiver

GP GL BD GA QZSS IR

Position Accuracy

VCC

Interface

Connector

Dimension(mm)

 LS23030-G      


2.5m

5v

USB

USB

49.0 x 41.0 x 14.1

 LS23032-G      

2.5m

5v

RS232

PS2

49.0 x 41.0 x 14.1

 LS23036-G      

2.5m

5v

RS232

RJ11

49.0 x 41.0 x 14.1

UDR mouse receiver

GP GL BD GA QZSS IR

Position Accuracy

VCC

Interface

Connector

Dimension(mm)

LS23030-UDG      

2.5m / 5% (UDR)

5v

USB

USB

49.0 x 41.0 x 14.1

LS23032-UDG      

2.5m / 5% (UDR)

5v

RS232

PS2

49.0 x 41.0 x 14.1

LS23036-UDG      

2.5m / 5% (UDR)

5v

RS232

RJ11

49.0 x 41.0 x 14.1

Sub-meter mouse receiver

GP GL BD GA QZSS IR


































Position Accuracy

VCC

Interface

Connector

Dimension(mm)

 LC23030-V2	     	1.5m	5v	USB	USB	75.0 x 75.0 x 16.1
 LC23032-V2	     	1.5m	5v	RS232	PS2	75.0 x 75.0 x 16.1
 LC23036-V2	     	1.5m	5v	RS232	RJ11	75.0 x 75.0 x 16.1
LC23030-V3	     	1.5m	5v	USB	USB	75.0 x 75.0 x 16.1
LC23032-V3	     	1.5m	5v	RS232	PS2	75.0 x 75.0 x 16.1
LC23036-V3	     	1.5m	5v	RS232	RJ11	75.0 x 75.0 x 16.1






























5G 

Timing Module































Timing module















GP GL BD GA QZSS IR ROM Flash Timing accuracy Position Accuracy VCC Interface Dimension(mm)

	GP	GL	BD	GA	QZSS	IR	ROM	Flash	Timing accuracy	Position Accuracy	VCC	Interface	Dimension(mm)
 MC-1722-T									2ns	1.5m	3.3v	UART	22.4 x 17.2 x 2.5
ST-1612-T									5ns	2.5m	3.3v	UART	16.0 x 12.2 x 2.2
ST-1612i-GT									3.9ns	1.8m	3.3v	UART	16.0 x 12.2 x 2.4
ST-1612i-BT									3.9ns	1.8m	3.3v	UART	16.0 x 12.2 x 2.4

PCI-E / M.2 Card



GPS PCI-e card		GP	GL	BD	GA	QZSS	IR	ROM	Flash	Position Accuracy	VCC	Interface	Dimension(mm)
LS26030-2RE									2.5m	3.3v	USB	50.8 x 28.5 x 3.2	
LS26031-2RE									2.5m	3.3v	USB	26.65 x 28.5 x 3.2	
LS26030									2.5m	3.3v	USB	50.8 x 28.5 x 3.2	
LS26031									2.5m	3.3v	USB	26.65 x 28.5 x 3.2	

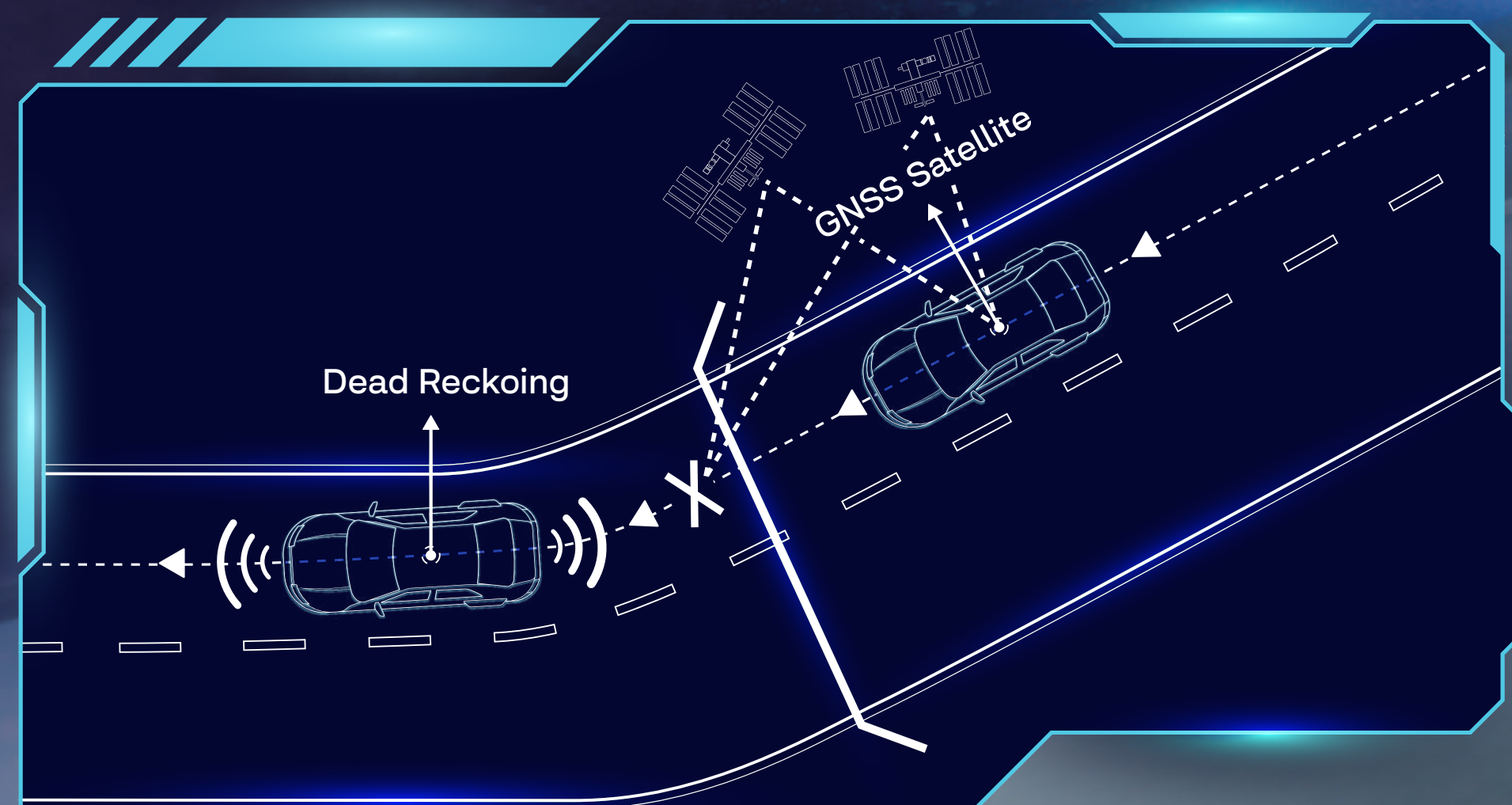
GNSS PCI-e card		GP	GL	BD	GA	QZSS	IR	ROM	Flash	Position Accuracy	VCC	Interface	Dimension(mm)
LS26030-G/-B										2.5m	3.3v	USB	50.8 x 28.5 x 3.2
LS26031-G/-B										2.5m	3.3v	USB	26.65 x 28.5 x 3.2

M.2 card

GP GL BD GA QZSS IR ROM Flash Position Accuracy VCC Interface Dimension(mm)

 M.2-V2b	     			1.5m	3.3v	TBD	41.9 x 22.0 x 4.1
 M.2-15R	     			0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	TBD	41.9 x 22.0 x 4.1
 M.2-35AD	     			1.5m	3.3v	TBD	41.9 x 22.0 x 4.1
 M.2-R35AD	     			0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	TBD	41.9 x 22.0 x 4.1
M.2-STi-DG	     			1.8m	3.3v	TBD	41.9 x 22.0 x 4.1
M.2-STi-GT	     			1.8m	3.3v	TBD	41.9 x 22.0 x 4.1

Dead Reckoning



GNSS DR module

GP GL BD GA QZSS IR

DR mode

Position Accuracy

VCC

Interface

Dimension(mm)



MC-1612-DG



ADR/UDR

2.5m

3.3v

UART

16.0 x 12.2 x 2.4

MC-1612-DB



ADR/UDR

2.5m

3.3v

UART

16.0 x 12.2 x 2.4

ST-1612i-DGO



ADR

1.8m

3.3v

ODO

16.0 x 12.2 x 2.3



MC-1612AD-DR



UDR

1.5m

3.3v

UART

16.0 x 12.2 x 2.6

LOCOSYS

GNSS Wireless & Communication

RTK Solution



RTK Module		GP	GL	BD	GA	QZSS	IR	P / R / Y	DR function	Heading Accuracy	Position Accuracy	VCC	Interface	Dimension(mm)
	RTK-1010-SB										0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	10.1 x 9.7 x 2.2
	RTK-1010										0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	10.1 x 9.7 x 2.2
	RTK-1612							○		< 0.2°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	16.0 x 12.2 x 2.4
	RTK-1612AD-DR							○	UDR		0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	16.0 x 12.2 x 2.6

RTK Board		GP	GL	BD	GA	QZSS	IR	MEMS sensor	UBX binary for drone	Heading Accuracy	Position Accuracy	VCC	Interface	Dimension(mm)
	RTK-4057-MHPD									< 0.2°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	USB	57.0 x 40.0 x 1.0
	RTK-DUAL-A									< 0.2°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	50.0 x 42.0 x 21.0
	RTK-DUAL-B							○		< 0.2°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	50.0 x 42.0 x 21.0
	RTK-DUAL-C								○	< 0.2°	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	50.0 x 42.0 x 21.0














RTK System	GP	GL	BD	GA	QZSS	IR	P/R/Y	4G LTE	Ethernet	Position Accuracy	VCC	Interface	Dimension(mm)
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 RTK-M300										0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	UART	185.0 x 120.0 x 42.0
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RTK USB dongle	GP	GL	BD	GA	QZSS	IR	P/R/Y	Operation System request	Position Accuracy	VCC	Interface	Dimension(mm)
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 RTK-15D								Android 5.0	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	USB TypeC	37.85 x 27.5 x 13.0
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RTK receiver for drone	GP	GL	BD	GA	QZSS	IR	P/R/Y	Platform support	Position Accuracy	VCC	Interface	Dimension(mm)
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Hawk R1								Pixhawk (PX4) Ardupilot	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	TTL	46.0 x 46.0 x 72.5
 Hawk R2								Pixhawk (PX4) Ardupilot	0.01m+1ppm < 1.5 m CEP (Autonomous)	3.3v	TTL	46.0 x 46.0 x 72.5

RTK Tablet

GP GL BD GA QZSS IR

Display

4G LTE


Wifi

Position Accuracy

VCC

Interface

Dimension(mm)

 ROCK T60      

5.5 inch



0.01m+1ppm
< 1.5 m CEP
(Autonomous)

3.3v

USB TypeC

195.0 x 98.0 x 22.0

 ROCK T71      

7 inch



0.01m+1ppm
< 1.5 m CEP
(Autonomous)

3.3v

USB TypeC

202.0 x 138.0 x 22.0

ROCK T80      

8 inch



0.01m+1ppm
< 1.5 m CEP
(Autonomous)

3.3v

USB TypeC

256.0 x 159.0 x 23.0

ROCK T101      

10.1 inch



0.01m+1ppm
< 1.5 m CEP
(Autonomous)

3.3v

USB TypeC

320.0 x 228.0 x 12.0



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