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Company Profile



LOCOSYS Technology is a global leader in the design and manufacturing of satellite positioning modules, specializing in Global Navigation Satellite System (GNSS/RTK), wireless communication, embedded systems, industrial/automotive applications, and avionics. We provide high-performance and highly reliable solutions tailored to various industries.

Founded in Taiwan, LOCOSYS originated from a prestigious information technology research institute. Over the past 20 years, we have continuously advanced our software, hardware, and system integration capabilities. With strong R&D expertise, we have become an Alpha-grade certified module design supplier for internationally renowned chip manufacturers. Today, our network spans over 20 distributors worldwide, providing localized services and comprehensive product lines with technical support, enabling customers to quickly implement high-performance solutions.

Beyond the traditional GNSS market, we actively expand into high-precision RTK, Al-assisted positioning, IoT integration, 5G communication, Low Earth Orbit (LEO) satellite communication, smart transportation, and autonomous vehicles, driving industry upgrades through technological innovation.

Company Development History



Officially Established

























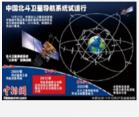
2005 2006 2007 2008 2010

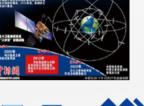
Company Established Achieved ISO 9001 Certification Design and Mass
Production of Modules
Based on Chips Such as
SiRF, MTK, Atmel, u-blox

Design of RDS-TMC (Global Real-Time Traffic Message Channel) Module Fully Committing to TS-16949 Automotive Quality Management System Certification Formally Partnering with Qualcomm Atheros to Design GPS+WiFi Modules













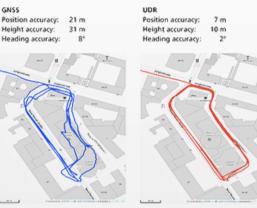


















2013





2014



2016

2019

2012

Globally Launching the First GPS+BeiDou **Dual-Mode** Positioning Module Solution

STMicro Partners in Designing **GPS+Inertial Navigation Module ADR Inertial Navigation Module** Successfully Enters the Asia-Pacific Automotive Market

Entering the Chinese Automotive (OEM) Industry

Successfully Upgraded to IATF-16949 Automotive **Quality Management**

Introducing ADR/UDR (IMU)High-Performance **Inertial Navigation Module Solution**















Meter level positioning module

RTK High-precision positioning module

TAY-Ve



High-precision positioning + High-precision orientation + High precision attitude

LOCOSYS Base Station Equipment

TianTong (LEO) Antenna



Formally Introducing the SUB METER (L1+L5) Module

Introducing the World's Smallest High-Precision RTK Module

Joining the Global Drone Association

Introducing
RTK High-Precision Positioning
+ High-Precision Orientation

+ High-End IMU Products

RTK base station provides centimeter-level accuracy for precise applications.

LOCOSYS TT0 is a compact S-band antenna ensuring stable satellite and wireless communication.

Economies of Scale



Economic Scale of the Industry

According to multiple market research reports, the global GPS market is expected to continue its growth trajectory.

The 2019 NIST report estimated that GPS technology contributes over \$65 billion annually to the U.S. economy, with an even greater impact globally. By 2024, the global GPS market size is projected to reach several hundred billion dollars, potentially exceeding \$100 billion.

Key Application Areas

1. Transportation:

GPS technology is widely used in navigation systems, vehicle tracking, and logistics management, enhancing transportation efficiency and reducing fuel consumption.

2. Agriculture:

Precision agriculture relies on GPS for crop monitoring, fertilization, and irrigation, thereby increasing yield and reducing costs.

3. Construction and Engineering:

RTK plays a crucial role in surveying, land management, and large-scale infrastructure construction, improving accuracy and efficiency in construction.

4. Communication:

GPS technology is also vital for synchronization and location services in mobile communication networks.

LOCOSYS Global Market Strategy



The GPS market strategy for 2025 will be influenced by technological advancements, industry demands, and market trends. Key Strategies and Development Trends for LOCOSYS Technology:

I.Technological Innovation

1. Accuracy and Reliability:

Enhance the accuracy and reliability of GPS systems, particularly in urban environments and under adverse conditions, which is crucial for applications like autonomous vehicles and drones.

2. Multi-frequency Support:

Develop and implement integrated receivers supporting multiple frequencies (such as L1, L2, L5, L6, etc.) to improve positioning accuracy and interference resistance.

II. Integrated Technologies

Integration with Other Navigation Systems: Combine GPS with other global navigation satellite systems (such as GLONASS, Galileo, BeiDou, IRNSS, QZSS) to improve the availability and accuracy of positioning.

III. Market Application Expansion

Autonomous Driving and Intelligent Transportation: Strengthen applications in autonomous vehicles and intelligent transportation systems by providing high-precision positioning and navigation services, supporting vehicle-to-everything (V2X) communication.



IV. Security and Protection, Anti-jamming and Anti-spoofing:

Develop anti-jamming and anti-spoofing technologies to protect GPS signals from interference and spoofing attacks, ensuring the security of critical applications.

V. Business Model Innovation:

Subscription-based high-precision positioning services offering customized services for different industries and applications.

VI. Collaboration and Ecosystem Building:

Establish partnerships with other technology providers and industry partners to jointly develop innovative applications and market solutions.

VII. Regulations and Standards:

1. Compliance Management:

Follow and participate in the formulation of global and regional navigation and positioning standards to ensure products meet relevant regulations and standards.

2. Carbon Policy Support:

Actively participate in policy making and ESG promotion by government and EU organizations.

LOCOSYS Development Direction



The development direction of GPS in 2025 will be influenced by technological advancements, application demands, and market trends. Dachen Technology anticipates the following directions.

I.Accuracy Improvement:

1. High-Precision Positioning:

With increasing demand, high-precision positioning will become a key development direction for GPS technology. This will involve the use of multi-frequency receivers, Ground-Based Augmentation Systems (GBAS), and Satellite-Based Augmentation Systems (SBAS) to achieve sub-meter and even centimeter-level accuracy.

2. Precise Point Positioning (PPP/PPK):

Developing and popularizing precise point positioning technology to enable its application in broader commercial and consumer fields, providing high-precision and reliable positioning services.

II. Integration of Technologies:

1. Multi-GNSS System Integration:

Combining GPS with other Global Navigation Satellite Systems (GNSS) such as GLONASS, Galileo, and BeiDou to provide higher positioning accuracy and reliability, especially in urban canyons and other environments where signals are obstructed.

2. MEMS Multi-Sensor Integration:

Integrating with technologies such as Inertial Navigation Systems (INS), Wi-Fi (6/7), Bluetooth (Beacon), LoRa/Zigbee, and Ultra-Wideband (UWB) to provide seamless indoor and outdoor positioning services, achieving all-weather high-precision positioning.



III. Anti-interference and Security

Anti-interference technology: Develop stronger anti-interference technologies to prevent signal interference and spoofing attacks, ensuring stable and reliable operation in harsh environments.

IV. Autonomous Driving and Intelligent Transportation

1. Autonomous Driving:

High-precision and high-reliability GPS technology is crucial for autonomous vehicles, driving further development and adoption of autonomous driving technologies.

2. Intelligent Transportation Systems:

In smart cities and intelligent traffic management systems, GPS technology will be used for traffic flow management, vehicle tracking, and public transit scheduling, enhancing transportation operational efficiency and safety.

V. Artificial Intelligence of Things (AloT) and Smart Devices

1. IoT Devices:

GPS technology will be widely used in IoT devices for applications such as asset tracking, environmental monitoring, and smart logistics, providing low-power and high-precision positioning services.

2. Wearable Devices:

In wearable devices for health monitoring and activity tracking, GPS will provide accurate positioning and data recording capabilities, enhancing user experience.



VI. Agriculture and Resource Management

1. Precision Agriculture:

Utilizing GPS technology for precise navigation and control of agricultural machinery, optimizing crop planting, fertilization, and irrigation to enhance agricultural production efficiency and sustainability.

2. Natural Resource Management:

In forestry, water resource management, and environmental monitoring, GPS technology will be used for accurate resource positioning and management, supporting environmental protection and sustainable development.

VII. Commercial and Consumer Applications

1. Logistics and Supply Chain Management:

GPS technology will play a crucial role in logistics and supply chain management, providing real-time tracking and route optimization to enhance transportation efficiency and accuracy.

2. Consumer Navigation:

In everyday consumer applications such as smartphone navigation and fitness trackers, GPS technology will offer more precise and reliable positioning services, improving user experience.

Products Milestone



2006~2012



2013~2018



2018~2022



2023 to future plan

Supplier







Module Type



Dimension (mm) 10*10/15*13/16*12/ 16*13/17*22/20*24

Smart Antenna Type





Type -T Type Mini-L Type Slim -type Turn-key

Mouse Receiver



LS23030~6

Supplier











Module Type



GNSS/ RTK L1+L2 Dimension (mm) 10*10/15*13/16*12/ 16*13/17*22

GNSS+ADR/UDR

*ST-1612i-DGX *MC-1612-DG

Smart Antenna Type



LS2003C/-G LS2003E/-G LS2003D/-G

Mouse Receiver



LS23030~6-G

Supplier







Module Type



GNSS(L1+L5) / RTK Dimension (mm) 10*10/ 16*12/ 17*22

RTK+DR

*RTK-1612AD-DR

*MC-1612AD-DR

L1+L5 RTK Heading Solution

*RTK-4057-MHPD

*RTK-DAUL

L1+L5 RTK device for UAV



*HAWK-series

Supplier





PCI-E M.2 Card Solution





M.2-V2b M.2-15R M.2-35AD M.2-R35AD M.2-STi-DG M.2-STi-GT

RTK Level High Position Antenna







RTK Helix L1+L5 Patch Antenna

Antenna

RTK Survey Antenna



ECATALOG

LOCOSYS Product Introduction

You can view an online version of our printed catalog by click the catalog website.

E-catalog Website

■ 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 highprecision 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 AloT and high-precision positioning applications but have also made significant progress in the fields of Al and autonomous driving. They drive advancements in unmanned vehicles, smart cities, drones, and inspection/surveying/exploration applications. By integrating Al technology, LOCOSYS is providing smarter and more efficient positioning services to customers worldwide.

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CONTENT



L1 FOR ALL GNSS SOLUTION



Multi-constellation GNSS module & ultra low power









MG-1010-52Q										
Satellite System	GPS	GLONAS	S BEIDOU	GALILEO	QZSS					
Satellite System	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2	L5	Acquisition Time	< 15s						
	•									
Channels	47		Max. Velocity	< 500 m/						
Sensitivity	_		n external LNA) th external LNA)							
Update rate	1Hz default,	up to 10Hz	Max. Altitude	< 18,000 m						
Position Accuracy	1.5m (CEP)		Supply Current	3.3V						
Dimension	10.1 x 9.7 x	2.2 mm	Operating Temp	-40°C~+85°	°C					

L1 FOR ALL GNSS SOLUTION



Multi-constellation GNSS module & ultra low power









MG-1612-52Q										
Satellite System	GPS	GLONASS	BEIDOU	GALILEO	QZSS					
Satemite System	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2		cquisition Time	< 15s						
Channels	47	M	lax. Velocity	< 500 m/						
Sensitivity	_	165dBm (with e -148dBm (with								
Update rate	1Hz default,	up to 10Hz	lax. Altitude	< 18,000 m						
Position Accuracy	1.5m (CEP)	S	upply Current	3.3V						
Dimension	16 x 12.2 x	2.4 mm O	perating Temp	-40°C~+85°	°C					

L1+L5 GNSS MODULES



Dual-frequency multi-constellation GNSS positioning module









MC-1010-V2b/MC-1612-V2b									
Satallita System	GPS	GLONAS	S BEIDOU	GALILEO	QZSS				
Satellite System	•	•	•	•	•				
Hardware spec									
Frequency	L1 L2	L5	Acquisition Time	< 15s					
rrequeriey	•	•	Acquisition fillie						
Channels	135		Max. Velocity	< 500 m/					
Sensitivity	_		h external LNA) ith external LNA)						
Update rate	1Hz default,	up to 10Hz	Max. Altitude	< 18,000 m					
Position Accuracy	<1.5m (CEP)	Power	65mA					
Dimension	16 x 12.2 x	2.4 mm	Operating Temp	-40°C~+85	°C				

^{*} MC-1612-V3b can receive IRNSS

L1+L5 RTK MODULES



Dual-frequency multi-constellation GNSS RTK module









RTK-1010/RTK-1612										
Satellite System	GPS	GLONAS	S BEIDOU	GALILEO	QZSS					
Satellite System	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2	L5	Acquisition Time	1	<28s (typical)					
Troquonoy	•	•	Acquisition Time	<10s(RTK C	convergence)					
Channels	135		Max. Velocity	< 500 m/						
Sensitivity	Tracking :-1 Cold start :-		UDR mode	CEP ≤ 3%						
Update rate	1Hz default,	up to 10Hz	Max. Altitude	< 18,000 r	n					
Position Accuracy	0.01m+1ppm	(Horizontal)	Power	65mA						
Dimension	16 x 12.2 x 2	2.4 mm	Operating Temp	-40°C~+8	5°C					



2025 GNSS/RTK With DR Solution



L1+L5+DR MODULES



Dual-frequency Multi-constellation GNSS Untethered dead reckoning module









MG-1612AD-DR									
Satellite System	GPS	GLONAS	S BEIDOU	GALILEO	QZSS				
Satellite System	•	•	•	•	•				
Hardware spec									
Frequency	L1 L2	L5	Acquisition Time	1s (typical)	1s (typical)				
Trequency	•	•		24s (typica	al)				
Channels	135		Max. Velocity	< 500 m/					
Sensitivity	Tracking :-16 Cold start :-1		UDR mode	CEP ≤ 3%					
Update rate	1Hz default,	up to 10Hz	z Max. Altitude < 18,000 m		i				
Position Accuracy	1.5m (CEP)		Power	56mA					
Dimension	16 x 12.2 x	2.4 mm	Operating Temp	-40°C~+85	5°C				

RTK+DR MODULES



High-precision Untethered dead reckoning module









RTK-1612AD-DR										
Catallita Cuatam	GPS	GLONAS	S BEIDOU	GALILEO	QZSS					
Satellite System	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2	L5	Acquisition Ti		1s (typical)					
	•	•		24s (typ	ical)					
Channels	135		Max. Velocity	< 500 m	1					
Sensitivity	Tracking :-16 Cold start :-1		UDR mode	CEP ≤ 3	%					
Update rate	1Hz default,	up to 10Hz	Max. Altitude	< 18,000	m					
Position Accuracy	0.01m+1ppm	(Horizontal)	Power	56mA						
Dimension	16 x 12.2 x	2.4 mm	Operating Ter	np -40°C~+	85°C					



L1+L5 GNSS Mouse



Dual-frequency multi-constellation GNSS mouse









LU2303x-Vx										
Catallita Cuatam	GPS	GLONAS	S BEIDOU	GALILEO	QZSS					
Satellite System	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2	L5	Acquisition Time	2s (typical)						
	•	•		20 (() piodi)						
Channels	135		Max. Velocity	< 500 m/						
Sensitivity	_	5dBm (with ex 48dBm (with e								
Update rate	1Hz default,	up to 10Hz	Protocol	NMEA 0183						
Position Accuracy	1.5m (CEP)		Datum	WGS-84						
Dimension	52 x 52 x 17	7 mm	Operating Temp	-20°C~+60	°C					

L1+L5 RTK BOARD



Dual-Frequency (Position& Orientation) RTK Board









RTK-4057-MHPD										
	GPS	GLONAS	S BEIDOU	GALILEO	QZSS					
Satellite System	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2	L5	Acquisition Time	<28s (typic						
	•	•		< 10s (RTK	Convergence)					
Channels	270		Max. Velocity	< 500 m/						
Sensitivity	Tracking :-16! Cold start :-14									
Update rate	1/5Hz (def 10Hz (option	fault) ; า)	Max. Altitude < 18,000 i		n					
Position Accuracy	0.01m+1ppm	(Horizontal)	Orientation	< 0.2° RM	IS.					
Dimension	40 x 57 x1 r	nm	Operating Temp	-40°C~+8	5°C					

L1+L5 RTK BOARD



Dual-frequency, Multi-constellation RTK Box









RTK-DUAL-series										
Cotollito	GPS GLC	ONASS	BEIDOU	GALILEO	QZSS					
Satellite	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2 L		uisition Time	<28s (typical) < 10s (RTK Co						
Channels	270	Aid	ed heading	Degraded by	≤ 2° (RMS)					
Sensitivity	Tracking :-165dBm Cold start :-148dBm	Orie	entation	< 0.2° RMS						
Update rate	2Hz (default), 5Hz	Оре	erating Temp	-40°C~+85	°C					
Position Accuracy	1cm+1ppm (horizontal) CEP	Dim	ension	50 x 42 x 21 mm						

RTK For Android System



L1+L5 RTK device for OTG on Android system









RTK-15D									
Catallita Cuatam	GPS	GLONAS	S BEID	OU	GALILEO	QZSS			
Satellite System	•	•	•		•	•			
Hardware spec									
Frequency	L1 L2	L5	Acquisition Time		<28s (typical)				
Trequency	•	•			< 10s (RTK (Convergence)			
Channels	135		System		Android O	S			
Sensitivity			h external LN ith external L	-					
Update rate	1Hz default 10Hz (optio	•	Connecter		USB TYPE	С			
Position Accuracy	0.01m+1ppm	(Horizontal)	Power		65mA				
Dimension	27.5 x 37.8	5 x 13 mm	Operating	Temp	-40°C~+8	5°C			

USB Dongle



GNSS/RTK USB Receiver









Product name	GNSS	L1	L1+L5	RTK	DR
UB-52Q					
UB-V2b					
UB-15R					
UB-35AD					
UB-R35AD					

HAWK For Drone



Dual-frequency multi-constellation RTKreceiver with e-compass













HAWK R2										
Satellite System	GPS	GLONASS	S BEIDOU	GALILEO	QZSS					
	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2	L5	Acquisition Time	<28s (typica < 10s (RTK C	l) Convergence)					
Channels	135		Dimension	46 x 72.5m	ım					
Sensitivity	_	35dBm (with ext 48dBm (with ex								
Update rate	5Hz default	, up to 10Hz	Power	67mA						
PPS	100ms puls 1.8Vdc	se width,	Operating Temp	-40°C~+85	5°C					

RTK SYSTEM



Rugged and industrial grade RTK computer









RTK-M300										
Satellite System	GPS	GLONASS	BEIDOU	GALILEO	QZSS					
	•	•	•	•	•					
Hardware spec										
Frequency	L1 L2	L5	Acquisition Time		<28s (typical)					
	•	•		< 10s (RTK	< 10s (RTK Convergence)					
Channels	135		Certifications	CE/FCC/E	CE/FCC/E13 mark					
Sensitivity	Tracking :-165dBm (with external LNA) Cold start :-148dBm (with external LNA)									
Update rate	1/5Hz (de 10Hz (optio		Operating	MIL-STD-	810					
Position Accuracy	0.01m+1ppm	(Horizontal)	Power Adapter	AC100-24	10V					
Dimension	180 x 120 x	45 mm	Operating Temp	-40°C~+8	5°C					

RTK SYSTEM



Rugged and industrial grade RTK computer









GB-10WB									
Satellite System	GPS	GLONAS	S BEIDOU	GALILEO	QZSS				
	•	•	•	•	•				
Hardware spec									
Frequency	L1 L2	L5	WI-FI	2.4Ghz 802	2.4Ghz 802.11 b/g/n				
	• •	•	Bluetooth	5.0 (BLE)					
os	Micropythor	١	RF transmit Powe (Max.)	r 125mW					
Battery	2500mAh		Certification	CE/FCC					
Data Interface	Type-C x 1		Military Standard	MIL-STD 8	10H				
Expansion Interface	RTK positioning antenna interface /4G antenna interface/ Wi-Fi and Bluetooth antenna interface								
Dimension	227 x 118 x	35 mm	Operating Temp	-20°C to 5	-20°C to 55°C				

RTK SYSTEM



Rugged and industrial grade RTK computer









GB-104B									
Satellite System	GPS	GLONAS	S BEIDOU	GALILEO	QZSS				
	•	•	•	•	•				
Hardware spec									
Frequency	L1 L2 L5		SIM card slot	Nano sim *	Nano sim *1				
	• •	•	Bluetooth	1.2 (BR/EDR)					
os	FreeRTOS		RF transmit Powe (Max.)	er 2W					
Battery	2500mAh		Certification	CE/FCC					
Data Interface	Type-C x 1		Military Standard	MIL-STD 8	10H				
Expansion Interface	RTK positioning antenna interface /4G antenna interface/ Wi-Fi and Bluetooth antenna interface								
Dimension	227 x 118 x	35 mm	Operating Temp	-20°C to 5	-20°C to 55°C				

RTK System



Rugged and industrial grade 8" and 10.1" RTK Android Tablet PC













ROCK T71/ROCK T101									
CPU	ARM Cortex A73 Octa-core(2.0GHz)	Position Accuracy	Autonomous : < 1.5m CEP RTK : 0.01m+1ppm						
GPU	ARM Mali-G72 MP3	r control recuracy	(Horizontal)						
Shake-proof	1-19Hz/1.0mm; 19-200Hz/1.0g	Reliability	MTBF>5000h; MTTR<0.5h						
Dropproof /IK	MIL-STD-810G/Method516	6.6/Procedure IV & Touch	Panel IK05						
Waterproof	Class 7 (IEC 60529)	Certification	3C /FCC/CE/ROHS/IP67 (IEC 60529)						
Dustproof	Class 6 (IEC 60529)	System	Android 10.0 / 11.0						
Dimension	ROCK T71 202*138*22mm ROCK T101 320*228*12mm	Operating Temp	-20°C to 55°C						

RTK System



Model Name	Photos	L1	الم الم الم الم	} & L 5	Wi-Fi	*))	4G LTE			OS	尺 刀 ∠ 乂 (mm)
RTK-M300 (4G-LTE)		•		•			•	•		Windows	185 X 120 X 45
RTK-M300 (Wi-Fi)		•		•	•			•			
RTK-M980 (4G-LTE)	LOCOSYS LOCOSYS	•	•	•			•	•			
RTK-M980 (Wi-Fi)		•	•	•	•			•			
GB-104B		•	•	•		•	•			RTOS	227 X 118 X 35
GB-10WB	La territoria	•	•	•	•	•					
GB-304WB		•	•	•		•	•			A al a : . l	100 V 100 V 16
GB-30WB		•	•	•	•				Android	120 X 100 X 46	



Helix-Antenna (L1/L5)





LH-105A2-B

Frequency: L1+L5

Waterproof: IPX7

Suitable for handheld, UAV



LH-105AR-D

Frequency: L1+L5

Waterproof: IP67

Suitable for handheld, UAV



LH-105AR-DC

Frequency: L1+L5

Waterproof: IP67

Suitable for handheld, UAV

Helix-Antenna (L1/L2/L5/L6/L-Band)





LH-105AR-D

Frequency: L1+L2+L5+L6

Waterproof: IP67

Suitable for handheld, UAV



LH-105AR-E

Frequency: L1+L5

Waterproof: IP67

Suitable for handheld, UAV



LH-1256L

Frequency: L1+L5

Waterproof: IPX7

Suitable for handheld, UAV

Patch Antenna (GNSS/RTK)





GNSS antenna

Frequency: L1+L5

Waterproof: IP67

Suitable for Automotive



GNSS/RTK antenna

Frequency: L1+L5

Waterproof: IP67

Suitable for Automotive

Survey Antenna





Frequency: L1+L2+L5+L6+L-Band

Waterproof: IP67

Suitable for Automotive and Base station



Frequency: L1+L2+L5+L-Band

Waterproof: IP67

Suitable for Automotive and Base station

TianTong (LEO) Antenna



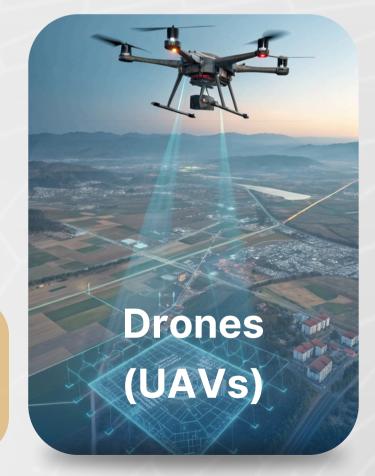


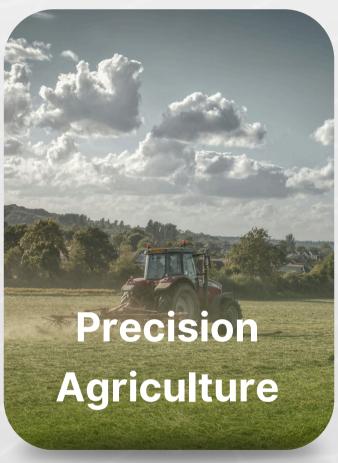
Frequency: S-Band

Suitable for Emergency and Disaster Communication, Marine, Drone, Field Operations

Application Areas

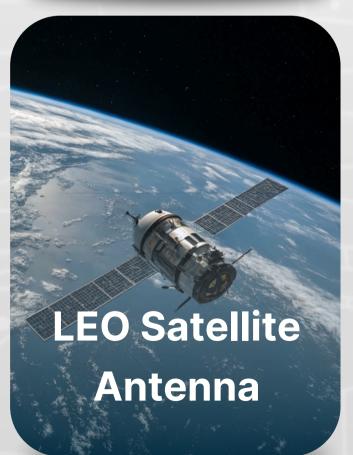
Our products are widely used in automotive navigation, autonomous driving, precision agriculture, drones, and robotics, helping global customers stay ahead and enhance competitiveness.















Application





Automotive Navigation











MG-1010-52Q

MG-1612-52Q

MC-1010-V2b

MC-1612-V2b

USB Dongle

Drones (UAVs)







LH-105AR-D/LH-105AR-D/ LH-105AR-E



LH-1256L



Application





Industrial Surveying



RTK-M300/RTK-M980



GB-104B/WB



ROCK T71/ROCK T101

AGV Robotics



RTK-1010



RTK-1612



RTK-4057-MHPD



RTK-DUAL



Application





Fleet Management

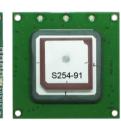














LS2003xU-G

LC2003x-52Q

LC2003x-Vx

Dead Reckoning







LC2003x-35AD













Quality Certifications & Recent Achievements



2016

International Quality Management Certifications

The first GNSS/RTK module supplier in Taiwan to be certified under IATF 16949:2016

2017

Technical Collaboration Awards

Awarded Best Technical Partner for GNSS/IMU Integrated Navigation Positioning Module in the automotive industry

2020

Selected as Best Technical Partner for Autonomous RTK High-Precision Positioning Navigation in Taiwan

2023

Sustainability Certification

Certified by AFNOR Global Carbon Footprint Assessment

Quality Assurance



ISO 9001

Globally Recognized Quality Management System Certification.

IATF 16949

Automotive Industry Quality Management System Certification.







Certificate of Registration

This certificate has been awarded to

LOCOSYS Technology Inc.

5F, No.187, Sec. 2, Zhongshan Rd., Shulin Dist., New Taipei City 238, Taiwan (R.O.C.)

in recognition of the organization's Quality Management System which complies with

IATF 16949:2016

The scope of activities covered by this certificate is defined below

Design and Manufecture of GPS/GNSS and Wireless Related Products.

Continues Number

Date of Issues of Cartification Cyclin

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A Design of the Control of the Contr

Certified Production line





Environment Policy











Certificate

Report no.: (TH23-332 / version 1)

Greenhouse Gas Verification Report Opinion

LOCOSYS TECHNOLOGY INC. 20F.-12 & -13, No. 79, Sec. 1, Xintai 5th Rd., Fuxing Vil., Xizhi Dist., New Taipei City

221432. Taiwan (R.O.C.)

Verification ISO 14064-1: 2018

Conclusion:

Scope:

According to ISO 14064-3:2019, AFNOR Asia Ltd. (AFNOR ASIA) confirms that the GHG statement (GHG inventory report) of the above-mentioned organization(s) is reported Verification in accordance with the verification criteria agreed by both parties. AFNOR performs

the verification with an objective and fair position and principle (relevant, complete consistent, accurate, and transparent).

Data Period 01 01, 2022 - 12 31, 2022

> Direct GHG emissions (category 1): 7.5610 tons CO2e

Verification Energy indirect GHG emissions (category 2): 27.0513 tons CO2e 34.1395 tons CO2e

Global Warming Potential (GWP): refer to IPCC

Statement Basis: This statement must be interpreted as a whole with the following.

GHG Inventory report (version: 1.4 ; Date: 11 07, 2023 (version: 1.4; Date: 11 07, 2023 **GHG Inventory**

Materiality: 5% (category 1 and category 2)

Confirm that the organization submits a GHG statement in accordance with the requirements of the verification criteria agreed by both parties, and fairly presents the GHG data and related information, which is consistent with the verification

Verification

scope, objectives and criteria agreed by both parties. Declares that the reasonable assurance level of the inventory data is category 1

and category 2.

Date of Issuance: 11 20, 2023

Director for Certification ON BEHALF OF AFNOR ASIA

(This document cannot be used on a single page. Using a single page is invalid.)

AFNOR Asia Ltd - 艾法諾國際股份有限公司 - 20F, No. 102, Chung-Ping Road, Taoyuan, 330 R.O.C. - Taiwan T: +88 63 220 0066 - F: +88 63 220 7889 - No. 29099712 - www.asia.afnor.org



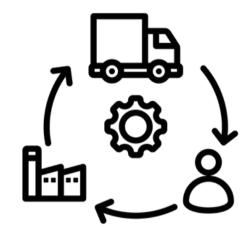
Conflict-Free Minerals Policy





Responsible Sourcing

Committed to not using conflict minerals to ensure ethical standards in products



Supply Chain SocialResponsibility

Collaborates with suppliers to ensure compliance with EICC international standards



Continuous Monitoring & Compliance

Actively monitors conflict mineral issues and strictly adheres to environmental and social responsibility standards

Global Carbon Footprint & Sustainability Commitment



01

Low-Carbon Manufacturing

The first GNSS/RTK module supplier in Taiwan to be certified under IATF 16949:2016

02

Green Supply Chain

Collaborating with suppliers to promote environmentally friendly products



03

Circular Economy

Enhancing resource recycling and reuse to minimize waste

04

Carbon Neutrality Goal

Implementing carbon reduction initiatives to move toward carbon neutrality

Introduction to Recent Successful Collaboration Cases











经濟日报



一家真正MIT採用「台灣自製品 需的定位座標穩定性。 片、自行研發演算法。實現高精 目前熱銷機種包括HAWK A1(

【台北訊】台灣大辰科技「 旋柱狀接收天線,給予載具精準 HAWK鷹系列」產品正式登錄 的定位精度和快速的定位時間, 國際全球PX4無人機協會,並獲 同時支援高更新率、高靈敏度, 該官方協會組織認可具備國際級 還結合獨特抗電信干擾功能、慣 RTK高精定位性能,成爲台灣第 性航程推估技術,可供飛行時所

GNSS等級/1.5m精度)、HAWK 大辰科技和PX4國際全球無人 R1(RTK高精度等級/1cm精度) 於旋翼機、定翼機、直升機、搬)無線通信、嵌入式Embedded 機協會聯手合作推廣L1+L5多頻 和HAWK R2(RTK+電羅盤/lcm 運車、接駁車、機器狗、漁業船 板卡、4G/5G基站系統、車規 多系統高精度定位,從個人DIY 精度)等3款,一次性接收全球五 舶、自駕車等無人載具平台。 娛樂、商業拍攝、農業植保、巡 大衛星系統(包括美國GPS、歐洲 台灣大辰科技深耕全球數十 及消費電子等。海內外擁有20多 羅監控、物流快遞、戰略偵搜應 Galleo、俄羅斯GLONASS、中國 年,目標致力於提供給予客戶 家代理商,可快速提供產品銷售 用等,客群用途越來越廣泛,「 北斗BDS、日本QZSS),擁有高 高品質、高精度和高性價比產 和技術支援 RTK高精度定位」優然形成高性 達135收星衛星通道數·於空職地 品,擁有IATF 16949:2016/ISO 台灣大辰科技官網:https:// 能無人機執行任務的基本配備。 區使用可搜星數超過80顆以上, 9001-2015汽車品質管理系統資質 www.locosystech.com/,電話(大辰科技「HAWK鷹系列定位 實際定位鎮星數超過60顆以上· 和完整生產線設備,產品包括全 02)8698-3698,E-mail: Info@



接收器」採用自行研發全向性螺 其動態表現性能優越·非常適用 球導航衛星系統(RTK/GNSS locosystech.com。 (異樣別)

经濟日報

【台北訊】全球定位模組 用途外,高精度定位更適 B1I/B2a、印度IRNSS L5 預測RTK高精度模組

入式Embedded系統、航空 而無法普及成爲商品。

領先設計與軟硬體製造階的 合無人移動載具、橋樑、 結合多頻/多系統信號, 將會快速擴展到各 大辰科技,開春就有新動作 大壩、邊坡及建築結構體監 高達135衛星通道數、65mA 種民用市場,提 ·發表全球最小尺寸RTK- 控、無人機空拍、物流快 (毫安)低功耗絕佳表現 供高品質和高 1010(10.1×9.7×2.2mm)多頻 遞與表演、手持與穿戴裝 ,可作爲Base Station基站或 性價比產品將 置、智慧植保與農耕、共 Rover移動端使用。 大辰科技擁有IATF 享行動、追蹤管理、V2V、 Base Station基站廣播 選。大辰科技

大辰科技資深行銷副總 星系統,包含美國GPS L1 格與性能已領先遠超過同等 (02)8698-3698分機305, 陳建良表示·衛星定位已善 /C/A、L5C、歐洲伽利 級進口產品。 遍應用在生活中,除了航 略Galileo E1、E5a、俄羅斯 大級科技行館全球數十年 com。台灣代理問光菱電子 andy.chou@koryo.com.tw。 空、軍事、地理測論等特殊 GLONASS L1、北斗Beidou , 熟知客戶的需求與痛點。 公司電話(02)2698-1143

16949:2016/ISO 9001:2015 V2X、時間校準等各種應 RTCM 3.X原始改正座標數 海內外擁有20 品質管理系統和完整生產線 用。但以往許多客戶受限於 據訊息,Rover在RTK模式 多家代理商進行 設備,提供全球導航衛星系 RTK設備售價昂貴、尺寸 可設置提供每秒1~10Hz高 在地化服務,快速 統(GNSS)無線通信、嵌 或功耗太大、技術門艦高, 更新率,定位精度1cm,定 提供完整產品系列和 向精度小於0.2度內:RTK 技術支持。 電子系統、汽車級和消費電 大辰科技RTK-1010模 定位收斂時間低於10秒,於 大辰科技網址:http:// RTK-1010高精度模組。 組可同時接收所有全球衛 静止或高動態狀態下,其規 www.locosystech.com,電話

E-mail: rtk305@locosystech. 分機107周經理, E-mail:

A16 產業動態

環境中,也能提供穩定且可靠的 展會中分享全球車用市場的深 對高穩定性與高兼容性的需求

產業邁向智慧化與永續發展。新 - 該天線採用高增益設計與抗 結合高精度定向與個性導航整 - 展會,與來自美國、日本、歐 於自駕車、無人接駁車、農業 境中的限制·提供穩定且連續 案。

段接收功能,即使在複雜的城市 LOCOSYS業務副總陳建良在 該天線能滿足多樣化應用場景 促進跨國合作。

入見解。他表示, 隨著智慧交 , 例如: 無人搬運車在室內外 新北市政府日前舉辦「電動 另一展示亮點·LOCOSYS的 通與自動駕駛技術快速發展。 環境切換中的信號穩定性,或 車產業鏈轉覽會」,腫聚國內外 多頻段天線(包括 L1、L2、L5 高精度RTK定位需求將呈現爆 農業機械在遼闊偏遠地區的精 知名企業與新創公司共同參與。 、L6、1 Band)具備卓越的信 炸性增長,尤其在自駕車領域 準導航需求。該產品不僅提升 作爲全球定位技術的領導者· 號接收性能,全面支持GPS、 ,定位技術已成爲實現車輛智 定位精度,還爲客戶提供更強

天線,以及專爲自駕車設計的專 幅降低多系統兼容設計成本, 此外,多賴段天線的研發是 持續深入研發,拓展產品多元 抗解決方案。最新的RTK高精度 爲客戶提供靈活且全面的解決 LOCOSYS在自駕應用市場的重 化應用。計畫參加更多國際博 要突破。陳建良進一步解釋, 覽會活動,擴大品牌影響力並



新北市市長侯友宜(右一)肯定LOCOSYS大辰科技創新技術。

经海日报

Swift@Locosys 解鎖新一代精緻

20:50 日間歴史性類勢告終 東方羅理看好党美元履備可再… 08:27 三垂往台北快改道!台1高架忠孝總全線封閉 拖板車

Locosys 大辰科技 推出全新高性能 SONY (GNSS/RTK) 全球衛星定位模組



24.11 DRONE ALLIANCE VISITS LOCOSYS

台灣卓越無人機聯盟參訪大辰科技領先企業 聚焦全球定位技術與無人機應用

領域的領先企業進行技術交流。本次參訪中,Locosys 大辰科技分享了在RTK(即時動態定位)、慣性導航技術 ,並特別介紹了飛行路徑自主規劃演算法等技術亮點。此外,生產品質管理系統的導入及其助力智慧製 造的成功經驗,也成為交流重點之一。





Strategic Partners & Customers

Together We Thrive, Building a Brilliant Future!

Strategic Partners





























































BROADCOM.

























11 日本交通株式會社













































Customers



Taiwan























































































































Customers



Japan

























Denmark



Canada



America













New Zealand

















South Korea









Lithuania

Germany









LOCOSYS Web



Youtube



+886-2-86983698



www.locosystech.com