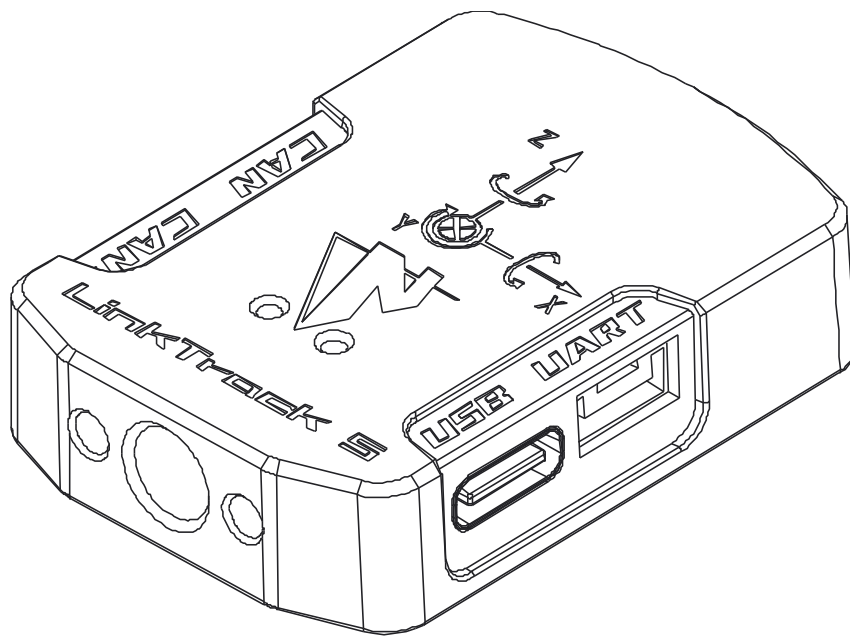


LinkTrack and Parts Selection Guide Manual V1.0



Language: English

Content|目录

LinkTrack and Parts Selection Guide Manual V1.0.....	1
Content 目录.....	2
Disclaimer.....	3
1 Introduction.....	4
2 Product Model.....	5
2.1 LinkTrack.....	5
2.2 Antenna.....	6
2.3 Feeder.....	7
2.4 Install Device.....	8
3 Update Log.....	9
4 Further Information.....	10

Disclaimer

Document Information

Nooploop reserves the right to change product specifications without notice. As far as possible changes to functionality and specifications will be issued in product specific errata sheets or in new versions of this document. Customers are advised to check with Nooploop for the most recent updates on this product.

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Nooploop products are not authorized for use in safety-critical applications (such as life support) where a failure of the Nooploop product would cause severe personal injury or death. Nooploop customers using or selling Nooploop products in such a manner do so entirely at their own risk and agree to fully indemnify Nooploop and its representatives against any damages arising out of the use of Nooploop products in such safety-critical applications.

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The LinkTrack, as supplied from Nooploop, has not been certified for use in any particular geographic region by the appropriate regulatory body governing radio emissions in that region although it is capable of such certification depending on the region and the manner in which it is used. All products developed by the user incorporating the LinkTrack must be approved by the relevant authority governing radio emissions in any given jurisdiction prior to the marketing or sale of such products in that jurisdiction and user bears all responsibility for obtaining such approval as needed from the appropriate authorities.

1 Introduction

This document mainly introduces the main parameters of LinkTrack and its parts. For more Information, read the following documents:

- LinkTrack Datasheet
- Nlink Protocol
- LinkTrack User Manual

Information Download: www.nooploop.com

2 Product Model

2.1 LinkTrack

There are 4 different models of LinkTrack products, the main differences are the communication distance, size, and shell. For details, please refer to Table 1.





Table 1: LinkTrack Model Parameters

Name	UWB Module			
Picture				
Models	LinkTrack S	LinkTrack P	LinkTrack SS	LinkTrack PS
Models Abbreviation	LTS	LTP	LTSS	LTPS
Antenna Type	Onboard antenna	External rod antenna	Onboard antenna	Onboard antenna
Size: mm	43*31*10	60*29*10 Antenna isn't included	27*32*7	27*39*7
Weight: g	12	33.3	2.9	3.9
Communication Distance: m	80	500	80	350
Supply Voltage: V	(3.6, 5.5)	(4.7, 5.2)	(3.6, 5.5)	(3.6, 5.5)
Power Consumption: W	1.0	1.35	0.7	0.8
Frequency Band: MHz	(3744, 4243.2) (4243, 4742.4) (6240, 6739.2)	(4243.2, 4742.4)	(3744, 4243.2) (4243, 4742.4) (6240, 6739.2)	(4243.2, 4742.4)
Communication Port	USB、UART、CAN(CAN isn't open)		UART (Two UART ports are the same electrical port)	
IMU Sensor	√	√	×	×
Shell Material	ABS	Aluminum Alloy	×	×
1D,2D Accuracy: cm	10			
3D Accuracy: cm	30			
Operating Temperature	(-20,85)			

2.2 Antenna

LTP can be connected to an external antenna, and the interface is SMA external thread and inner hole, so you can choose a more suitable antenna model according to the actual use scenario. For details, please refer to Table 2.




Table 2: Antenna Model Parameters

Name	Antenna			
Picture				
Model	NAUWB01	NAUWB02	NAUWB11	NAUWB03
Size: mm	85.5*φ9.3	195*φ13	53*φ8	200*φ16
Weight: g	8.72	26.8	3.9	61
Gain: dBi	3	5	3	5
Frequency Band: GHz	[3.7,4.2]			
Port	SMA, internal thread and inner needle.			
Omnidirectional	☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆	☆☆☆☆☆
Waterproof Effect	☆☆☆☆	☆☆☆☆	☆☆☆	☆☆☆☆☆
Range: m (Based on LTP Test)	500	650	500	650
Whether it can be folded	√	√	×	×

2.3 Feeder

When the antenna and UWB module need to be placed separately, you can connect the UWB module and antenna through the feeder. For details, please refer to Table 3.



Table 3: Feeder Model Parameters

Name	Feeder		
Picture			
Model	NACUWB100	NACUWB300	NACUWB500
Length: m	0.1	0.3	0.5
Weight: g	7	10	13
Impedance	50 Ω		
Port	SMA internal thread and inner needle - SMA external thread and external needle		

2.4 Install Device

Both LTS and LTP have 1/4-20 nut mounting holes, which can be installed on equipment with 1/4-20 screws. For details, please refer to Table 4.

Table 4: Install Equipment Model Parameter

Name	Sucker	Tripod
Picture		
Model	NIDXP001	NIDSJ001
Length: m	0.15	2.1
Weight: g	60	900
Mounting holes	1/4 -20 Screw	

3 Update Log

Table 5: Update Log

Version	Data	Description
1.0	20200409	● Release the first edition of the manual

4 Further Information

Company: Shenzhen Nooploop Technology Co., Ltd.

Address: Room 113, 1st Floor, Building 5, Qianhai Shengang Youth DreamWorks, No. 35 Qianwan 1st Road, Qianhai-Hong Kong Cooperation Zone, Shenzhen

E-mail: marketing@nooploop.com

Website: www.nooploop.com