1.Universal Command

ΑT

AT	
Description	Instructions to test whether the AT framework is working properly
Response	OK The AT command test was successful
	ERR The AT command test failed
Example	Send: AT
	Response: OK

AT+SAVE

AT+SAVE	
Description	Save configuration
Response	OK Save success
	ERR Save failed
Example	Send: AT+SAVE
	Response: OK

AT+GETVER

AT+GETVER	
Description	Get the software version number
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+GETVER

Response:
getver software:V1.0.0 OK

AT+RESTART

AT+RESTART	
Description	Reset and restart
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+RESTART
	Response: OK

AT+RESTORE

AT+RESTORE	
Description	Return to factory mode
Response	OK The AT command was processed successfully ERR The AT command processing failed
Example	Send: AT+RESTORE
	Response: OK

AT+GETWORKMODE

AT+GETWORKMODE	
Description	Query the working mode (0: Normal working mode 1: Production test mode)
Response	OK The AT command was processed successfully ERR The AT command processing failed

Example	Send: AT+GETWORKMODE
	Response: workmode: 0
	ОК

AT+SETWORKMODE

AT+SETWORKMODE=X	
Description	Set the working modeX:
	0: Normal working mode 1: Production test mode
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+SETWORKMODE=1
	Response: workmode: 1
	ok

AT+GETCFG

AT+GETCFG	AT+GETCFG	
Description	Get configuration information	
Response	OK The AT command was processed successfully	
	ERR The AT command processing failed	
Example	Send: AT+GETCFG	
	Response:	
	getcfg ID:65535, Role:0, CH:1, Rate:1, Group:1	
	OK	

AT+SETCFG

AT+SETCFG=	=X1,X2,X3,1, X4
Description	Set configuration information (After configuration, execute the save

	instruction)
	x1: Device ID(0~10)
	x2: Device roles(0: tag 1: anchor)
	x3: Device channel (0: channel 9 1: channel 5)
	1:(Device rate 6.8M)(Currently only supports 6.8M)
	X4: node group(0~255) (Base stations need to be equipped, All tags are set to 0 by default)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+SETCFG=0,1,0,1, 1
	Response:
	setcfg ID:0, Role:1, CH:0, Rate:1, Group:1
	OK

1. Development board production test command

AT+GETSENSOR

AT+GETSENSOR	
Description	Development board production test instructions (Note: BU03 support, BU04
	hardware does not support)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+GETSENSOR
	Response:
	acc_x:0.000000
	acc_x:0.000000
	acc_x:0.000000
	angle:0.000000
	OK

AT+TESTLED

AT+TESTLED = X	
Description	Start/stop development board LED (flow light) test (Note: Use before executing AT+SETCFG to configure device information) X: 1: Start test led 0: Stop test led
Response	OK The AT command was processed successfully ERR The AT command processing failed
Example	Send: AT+TESTLED = 1 Response: OK

AT+TESTOLED

AT+TESTOLI	ED
Description	Test development board screen (screen display)
	(Note: Use before executing AT+SETCFG to configure device
	information)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+TESTOLED=HELLO TEST!
	Response: OK

AT+DISTANCE

AT+DISTANCE	
Description	Ranging (after configuration)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+DISTANCE
	Response: distance: 0.340000
	OK

2. TWR algorithm specific command

AT+GETDEV

AT+GETDEV	
Description	Get the coefficient of the setting
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+GETDEV
	Response: OK

AT+SETDEV

AT+SETDEV=X1,X2,X3,X4,X5,X6,X7,X8,X9	
Description	Set the coefficient of the device (After configuration, execute the save
	instruction)
	x1: Tag capacity (tag refresh rate)
	X2: Antenna delay parameter
	x3: Whether the Kalman filter is enabled
	x4: Kalman filter parameter Q
	X5: Kalman filter parameter R
	x6: Correct parameter a
	x7: Correct parameter b
	X8: Whether the positioning enable bit is enabled
	X9: Positioning dimension Settings
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+SETDEV=5,16336,1,0.018,0.642,1.0000,0.00,0,0
	Response:

gtdev cap:5 anndelay:16336, kalman_enable:1, kalman_Q:0.018, kalman_R:0.642, para_a:1.0000, para_b:0.00, pos_enable:0, pos_dimen:0

OK

3. Special command for PDOA algorithm

AT+DECA\$

AT+DECA\$	
Description	PDOA PC software certification
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+DECA\$
	[14:16:49.521]收卡◆J008D{"Info":{
	Response: ^{OK}

AT+GETDLIST

AT+GETDLIST	
Description	Get [Discovery List] (Note: only applicable to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+GETDLIST
	[14:50:48.124]收←◆{DList":["000000004E818834"]} Response: OK

AT+GETKLIST

AT+GETKLIST	
Description	Get [pairing list] (Note: only applicable to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+GETKLIST
	Response:
	[14:52:17.056] \ \tau ← ♦ {KList": [{"slot": "0001", "a64": "000000004E818834", "a16": "8834", "F": "0001", "S": "0040", "M": "00000"}]} OK

AT+ADDTAG

AT+ADDTAC	j
Description	Add tags to [pairing list] (Note: only applies to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+ADDTAG=000000004E818834,8834,1,64,0
	Response:
	[14:51:27.383] by ← ◆ J0064 {"TagAdded": {"slot":"0001", "a64":"000000004E818834", "a16":"8834", "F":"0001", "S":"0040", "M":"0000"}} OK

AT+DELTAG

AT+DELTAG	
Description	Remove the tag from the [pairing list] (Note: only applies to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+DELTAG=000000004E818834 [14:52:49.883]收←◆J0022{"TagDeleted": " 4e818834"} OK Response:

AT+PDOAOFF

AT+PDOAOFF	
Description	Angle correction (Note: only applicable to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+PDOAOFF=1
	Response: OK

AT+RNGOFF

AT+RNGOFF	
Description	Distance correction (Note: applies only to base stations)
Response	OK The AT command was processed successfully ERR The AT command processing failed
Example	Send: AT+RNGOFF=1
	Response: OK

AT+FILTER

AT+FILTER	
Description	Enable filtering (Note: only applicable to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+FILTER=1
	Response: OK

AT+UARTRATE

AT+UARTRATE		

Description	Serial port rate (Note: only applicable to base station)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+UARTRATE=100
	Response: OK

AT+USER_CMD

AT+USER_CMD	
Description	Output format (Note: only applicable to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+USER_CMD=0
	Response: OK

AT+PDOASETCFG

AT+PDOASETCFG	
Description	Configuration parameters (Note: only applicable to base stations)
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send: AT+PDOASETCFG=1,1,3333,1,100,0,0
	Response:
	[14:56:25.751]收失←◆gtofg Dlist:1 KList:1 Net:ODO5 AncID:1 Rate:100 Filter:O VserCmd:O pdoaOffset:1 rngOffset:0

AT+PDOAGETCFG

AT+PDOAGETCFG	
Description	Get configuration parameters
Response	OK The AT command was processed successfully

	ERR The AT command processing failed
Example	Send: AT+PDOAGETCFG
	Response:
	[14:56:59.940]收←◆gtofg Dlist:1 KList:1 Net:ODO5 AnoID:1 Rate:100 Filter:O UserCmd:O pdosOffset:1 rngOffset:0 OK

4. Algorithm switch command

AT+SETUWBMODE

AT+SETUWBMODE=X	
Description	Algorithm selection (set and save)
	X: 0: TWR
	1:PDOA
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send:
	Response:

AT+GETUWBMODE

AT+GETUWBMODE	
Description	Query the current algorithm
Response	OK The AT command was processed successfully
	ERR The AT command processing failed
Example	Send:
	Response: