



UBWSeries modulesATInstruction Set

VersionV1.0

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#### Overview

This article describes theuWbSeries modulesATHow to use the command.

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### **Revision History**

date	Version	author	describe
2020.4.23	V0.0.0	Johhn	Initial release
2020.5.29	V1.0.0	Johhn	The number of base stations that can be added increases and recovery Factory settings
2020.9.16	V1.0.1	Johhn	Increasemaster_tagandslave_tag



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#### 1. Overview

#### 1.1 AT Command Abbreviations and Conventions

Send via serial portATCommand, you can useUBWmodule.

## 1.2 AT Command Syntax

All in the documentATThe command line must begin with "AT" As the beginning, with a carriage return (<CR>) as the ending.

The response is usually followed by the command, and its format is "<Enter><Line Feed><Response Content><Enter><Line Feed"

(<CR><LF><Response content> <CR><LF>)".ATDuring the command introduction, only <response content> is introduced in detail.

In the process, <carriage return> and <line feed> are intentionally omitted.

## 1.2.1 AT command syntax

All in the documentATThere are four types of commands:

Basic class commands: This classATThe command format is "AT<x><n>" or "AT&<x><n>", where "<x>" yes

The command comes with "<n>" This means that the command supports one or more parameters. For example:ATE<n>", this command is used to close

Or enable the echo function, that isDCEWill be based on "n>" The value determines whether the received characters are echoed toDTE.n>" yes

Optional parameter. If no value is given, the default value will be used.

Parameter commands: ATThe command format is "ATS<n>=[<m>]", where "<n>" yesSthe index of the register, "<m>"is the parameter value assigned. ATIn the command, "<m>" Is an optional parameter. If no value is assigned, default value.

Extension commands: Generally speaking, extension commands can be divided into the following types according to the operation format and application function:

AT	Format	Functional Description
Setting Instructions	AT+CXXX=n	This command is used to set the command or internal



## **UWB**Series module AT instruction set V1.0

		Program settings parameters
Query command	AT+CXXX?	This command is used to query the current
		value
Execute Instructions	1. AT+CXXX=<···>,[<···>]	This command is used to set user-defined parameters.
	2. AT+CXXX	Value and execute



#### 2. General Instructions

## 2.1 AT test command

#### describe

This command is used to simply test whether the basic functions of the module are normal.

#### grammar

E	execute Instructions	response
/	АТ	OK

## 2.2 AT+switchdis Set whether to enable ranging

#### describe

This command controls whether to measure the distance, and is only valid in tag mode.

#### grammar

Execute Instructions	response	
AT+switchdis=value	Whenvalue>equal0When the distance measurement is turned off, returnOK	
	Whenvalue>equal1When the ranging function is turned on, theOK	

#### 2.3 AT+interval Set the distance measurement interval

### describe

This command can set the ranging interval

#### grammar

Execute Instructions	response
AT+interval=value	ОК

parameter

<value>

Set the ranging interval

### Remark

-The range is5-50



-It sets the number of times data is acquired before the distance is output. The larger the value, the slower the refresh speed.

## 2.4 AT+version query version number

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Query version number

#### grammar

Execute Instructions	response
AT+version?	AIT-BU01-DB V000 T2020-4-17
	ок

#### Remark

-Get the manufacturer, module series and version number

## 2.5 AT+RST Reset

#### describe

This command is used to reset the module.

### grammar

Execute Instructions	response
AT+RST	ОК
describe:	
Reset the module.	

## 2.6 AT+tem\_hum Get temperature and humidity

#### describe

Get temperature and humidity information.

Syntax execution instructions	response
-	



AT+tem_hum	T:term
describe:	H:hum
Look up manufacturer information.	ОК

#### Remark

-TemFor temperaturehumHumidity

## 2.7 AT+xyz Get three-axis acceleration

#### describe

Get three-axis acceleration information.

#### grammar

Execute Instructions	response
AT+xyz	x:num1
	y:num2
	x:num3
	angle:num4
	ОК

#### Remark

-X,y,zis the original data of three-axis acceleration,angleis the converted tilt angle

# 2.8 AT+anchor\_tag Set device mode

### describe

This command sets the device mode and ID.

#### grammar

Execute Instructions	response
AT+anchor_tag=model,ID	OK



parameter

## Model 1Yes Choiceanchormodel,0Yes Choicetagmodel

IDSetting up base stations and tagsID, from the beginning

#### Remark

- Base stationIDUp to four, tagstagMust existmaster\_tag,defaultIDfor0
- The factory firmware default isanchormodel

## 2.9 AT+FACTORY

describe

Restore factory settings.

#### grammar

Execute Instructions	response
AT+FACTORY	ОК

#### Remark

-Default base station mode,IDfor0