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UBWSeries modulesATInstruction Set

VersionV1.0

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Overview

This article describes theuWbSeries modulesATHow to use the command.

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Notice

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

Table of contents

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

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

Execute Instructions	response
AT	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	OK

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

describe

Query version number

grammar

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

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 **describe:** Reset the module.	OK

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.	OK

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 OK

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 andID.

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	OK

Remark

-Default base station mode,IDfor0