

RYRR30D AT COMMAND Guide



AT Command Set

It is required to key in “enter” or “0x0D 0x0A” in the end of all AT Command.

It is required to wait until the module replies +OK to execute the next AT command.

1. **AT** Test if the module can respond to Commands.

Syntax	Response
AT	+OK

2. **Software RESET**

Syntax	Response
AT+RESET	+RESET +READY

3. **AT+MODE** Set the work mode.

Syntax	Response
AT+MODE=<Parameter> <Parameter>Range from 1 to 2 1 : Command Mode(default) 2 : Standalone Mode 1: In Command mode: you can execute AT Command to set various parameters. . 2: Standalone Mode: In this mode, only AT+MODE commands are accepted, will depend on the Command mode setting' s Apple® Wallet VAS & Google® SmartTap pass ID and Key, as well as AT+SCAN setting' s protocol Scan Pass and RFID TAG Example: Set to Standalone Mode: AT+MODE=2 *The settings will be memorized in Flash.	+OK
AT+MODE?	'When MODE=1 +MODE=1

4. **AT+IPR** Set the UART baud rate.

Syntax	Response
AT+IPR=<rate> <rate> is the UART baud rate : 4800 9600 19200 28800 38400 57600 115200(default) Example: Set the Baud Rate as 9600 : AT+IPR=9600 <i>*The settings will be memorized in Flash.</i>	+OK
AT+IPR?	+IPR=9600

5. **AT+APPLE** Set Apple® Wallet VAS parameters

Syntax	Response
AT+APPLE=<Number>,<ID>,<Key> 1.<Number>: Serial number, 1~6 represents the order. Each serial number has its own corresponding ID and Key of Apple® Wallet VAS. 2.<ID>: Merchant ID is generally 64 characters. 3.<key>: Key matching the Merchant ID, usually 64 characters. Example: <ID> and <Key> set as the 1st group of serial numbers AT+APPLE=1,012345678901234567890123456789012 3456789012345678901234567890123,2345678901234 567890123456789012345678901234567890123456789 012345 <i>*The settings will be memorized in Flash.</i>	+OK
Confidentiality issue, no inquiry instructions	

8. +APPLE Actively prompt Apple® Wallet VAS to receive information

Response
<p>+APPLE=<Number>,<DATA></p> <p>1.<Number>: Serial number, 1~6 represents the order. Each serial number has its own corresponding ID of Apple® Wallet VAS and DATA decoded by Key.</p> <p>2. <DATA> : Data from Apple® Wallet VAS. The maximum length of data is 63 bytes.</p>
<p>Example: +APPLE=1,ABCDEFGF</p>

9. +GOOGLE Proactively prompt Google® SmartTap pass to receive information

Response
<p>+GOOGLE=<Number>,<DATA></p> <p>1.<Number>: Serial number, 1~6 represents the order. Each serial number has its own corresponding ID of Google® SmartTap pass and DATA decoded by Key.</p> <p>2. <DATA> : Data from Google® SmartTap pass. The maximum length of data is 138 bytes.</p>
<p>Example: +GOOGLE=1,ABCDEFGF</p>

10. +FeliCa Actively prompt to analyze the UID of FeliCa

Response
<p>+FELICA=<UID> +<Type>:<Payload></p> <p>1.<UID>: Unique serial number, unique UID serial number on FeliCa TAG.</p> <p>2.<Type>: NFC Forum NDEF Record Types.</p> <p>3.<Payload>: NFC Forum NDEF Record Payload.</p> <p><i>* If the TAG does not contain NDEF data, the <Type> and <Payload> fields will not be displayed.</i></p>
<p>Example: (TAG contain NDEF data)</p> <p>+FELICA=0011223344556677 +Text:Reyax Test Tag</p> <p>(TAG not contain NDEF data)</p> <p>+FELICA=0011223344556677</p>

11. +ISO14443B Actively prompt to analyze the UID of ISO14443B

Response
<p>+ ISO14443B=<UID> +<Type>:<Payload></p> <p>1.<UID>: Unique serial number, unique UID serial number on ISO14443B TAG. 2.<Type>: NFC Forum NDEF Record Types. 3.<Payload>: NFC Forum NDEF Record Payload.</p> <p><i>* If the TAG does not contain NDEF data, the <Type> and <Payload> fields will not be displayed.</i></p>
<p>Example: (TAG contain NDEF data)</p> <p>+ISO14443B=ABCDEFGH +URI: (http://www.)tiananxin.com</p> <p>(TAG not contain NDEF data)</p> <p>+ISO14443B=ABCDEFGH</p>

12. +ISO14443A Actively prompt to analyze the UID of ISO14443A

Response
<p>+ ISO14443A=<UID> +<Type>:<Payload></p> <p>1.<UID>: Unique serial number, unique UID serial number on ISO14443A TAG. 2.<Type>: NFC Forum NDEF Record Types. 3.<Payload>: NFC Forum NDEF Record Payload.</p> <p><i>* If the TAG does not contain NDEF data, the <Type> and <Payload> fields will not be displayed.</i></p>
<p>Example:(TAG contain NDEF data)</p> <p>+ISO14443A=AABBCCDDEEFFGG +Text:Reyax Test Tag</p> <p>(TAG not contain NDEF data)</p> <p>+ISO14443A=AABBCCDDEEFFGG</p>

13. +ISO15693 Actively prompt to analyze the UID of ISO15693

Response
+ ISO15693=<UID> +<Type>:<Payload>
1.<UID>: Unique serial number, unique UID serial number on ISO15693 TAG. 2.<Type>: NFC Forum NDEF Record Types. 3.<Payload>: NFC Forum NDEF Record Payload.
<i>* If the TAG does not contain NDEF data, the <Type> and <Payload> fields will not be displayed.</i>
Example: (TAG contain NDEF data) + ISO15693=0011223344556677 +Text:Reyax Test Tag
(TAG not contain NDEF data) +ISO14443A=0011223344556677

14. + ST25TB Actively prompt to analyze the UID of ST25TB

Response
+ ST25TB=<UID>
1.<UID>: Unique serial number, unique UID serial number on ST25TB TAG.
Example: +ST25TB=0011223344556677

15. AT+UID? To inquire module' s unique serial number

Syntax	Response
AT+UID? 12 Bytes Unique ID	+UID=164738323135383200100025

16. AT+VER? To inquire the firmware version.

Syntax	Response
AT+VER?	+VER=RYRR30D-Vx.x.x

17. AT+ IAP Update FW through UART interface.

Syntax	Response
<p>AT+ IAP</p> <p>When the module sends "C" continuously, it means the module is in YMODEM mode. The module enters the status of F/W update.</p> <p>* Only valid in MODE=1</p>	<p>+IAP</p> <p>=====</p> <p>=====</p> <p>= (C) Reyax Inc.</p> <p>=</p> <p>= By Huck =</p> <p>=====</p> <p>=====</p> <p>CCCC</p>

18. Error result codes

Narrative	Response
There is not "CR/LF" or 0x0D 0x0A in the end of the AT Command.	+ERR=1
The head of AT command is not "AT" string.	+ERR=2
Unknown command./Command given in incorrect state.	+ERR=4



E-mail: sales@reyax.com
 Website: <http://reyax.com>