REYAX
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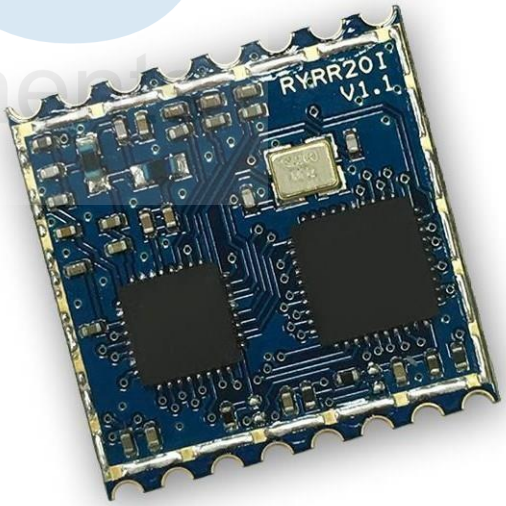
14-DEC-2022 56312E32

RYRR20I

Read/ Write ISO14443A Mifare ultralight and

ISO15693 TAG memory

Command Manual



Command Manual

Show in ASCII string, Baud rate 115200, 8, N, 1

Red for the command, green for the response.

1. ISO14443A Read/ Write TAG memory

0108000304FF0000 'Entry command mode, need to be released after booting REYAX

REYAX RYRR20I

010C00030410008001210000 'Parameter setup

Register write request.

010C00030410002001090000 'Parameter setup

Register write request.

0109000304F0000000 'Parameter setup

AGC Toggle

0109000304F1FF0000 'Parameter setup

AM PM Toggle

0109000304A0000000 'Read the card number of ISO14443A Mifare Ultralight,
write twice if it could not read.

14443AREQA. '042E41E3425F1D8080 is the card number, 7F is the signal strength.

[042E41E3425F1D8080,7F]

Example: Write single block	
010F000304180021<Block number><Data>0000	
Block number	07
Data	AAAABBBB
Send:	010E00030418A207AAAABBBB0000
Receive:	Request mode. []

Example: Read 4 blocks	
010B000304180020<Block number>0000	
Block number	07
Send:	010A00030418300700 00
Receive:	Request mode. [AAAABBBB00000000000000000000000FA42]

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2. ISO15693 Read Invertory and Read/Write Block

0108000304FF0000 'Entry command mode, need to be released after booting REYAX RYRR20I
REYAX RYRR20I

010C00030410008001210000 'Parameter setup
Register write request.

010C00030410002001000000 'Parameter setup
Register write request.

0109000304F0000000 'Parameter setup
AGC Toggle

0109000304F1FF0000 'Parameter setup
AM PM Toggle

010B000304140401000000 'Read ISO15693 card number,
ISO 15693 Inventory request. '17C7BA76500104E0 is the card number, 7F is the signal strength.
[17C7BA76500104E0,7F]

Example: Write single block	
010F000304180021<Block number><Data>0000	
Block number	01
Data	44332211
Send:	010F000304180021014433221 10000
Receive:	Successful: Request mode. [00] Failure: Request mode. []

Example: Read single block	
010B000304180020<Block number>0000	
Block number	01
Send:	010B000304180020010000
Receive:	Successful: Request mode. [00AAAAAAAA] Failure: Request mode. []

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Example: Read Multiple blocks	
010C000304180023<First Block><Number of Blocks>0000	
First Block	01
Number of Blocks	03
Send:	010C000304180023010300000
Receive:	Successful: Request mode. [00000000001111111122222222333333333] Failure: Request mode. []
Block01 to 04 Data:	00000000001111111122222222333333333

3. Felica Read TAG UID

0108000304FF0000 'Entry command mode, need to be released after booting REYAX RYRR20I
REYAX RYRR20I

010C00030410008001210000 'Parameter setup
Register write request.

010C000304100020011A0000 'Parameter setup
Register write request.

0109000304F0000000 'Parameter setup
AGC Toggle

0109000304F1FF0000 'Parameter setup
AM PM Toggle

010900030444000000 'Read Felica card number,
FeliCa polling. '**012E5508F8569941** is the card number, 7F is the signal strength.
[012E5508F8569941,7F]

4. other

0108000304000000 'Reset module
RESET
0108000304FE0000 'Ask about FW version
REYAX RYRR20I V1.4

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HISTORY

Date	Description	FW Version
02-Jun-2020	1. First version	V1.0
14-Dec-2022	1. Add Felica read TAG UID 2. Modified command parameter description in user manual.	V1.4

first FC components

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