

High frequency RFID radio frequency reading and writing module communication protocol

(V1.1)

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1. Communication format

1.1 Command Packet Format

start of frame	Device ID	data/parameter length	Order	data/parameters	check
1Byte	1Byte	2Byte	1Byte	nByte	1Byte

Description of each field

start of frame	Packet start byte, fixed at 0x60
Device ID	The value is 0x00~0xff, all devices can respond to the command packet whose ID is 0x00
data/parameter length	Data/parameter field length in bytes, high first
Order	command code
data/parameters	Data and parameter fields in the protocol, may not exist
check	Sequential XOR of all bytes from start frame to data/parameter field

1.2 Response packet format

start of frame	Device ID	data/parameter length	Order	data/parameters	check
1Byte	1Byte	2Byte	1Byte	nByte	1Byte

Description of each field

start of frame	Response frame start byte, correct response is 0x60, error response is 0xE0
Device ID	Physical ID of the device
data/parameter length	Byte length of the data/status field
Order	Command code, consistent with the command package
data/parameters	Returned data or execution status, this field may not exist
check	Sequential XOR of all bytes from start frame to data/status field

1.3 Default interface parameters

Baud rate 9600bps, N,8,1	Device address 0x20
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2. list of commands

0x01	set baud rate
0x02	Query device address
0x03	set device address
0x04	Set working mode
0x05	Get working mode
0x06	Set read and write keys
0x07	Set the original key
0x08	set user data
0x09	Get user data
0x0A	Control BUZ&LED
0x0E	factory reset
0x0F	get version number
0x10	command to upload data
0x11	Get card UID
0x12	Read M1 data
0x13	Write M1 data
0x14	sector encryption
0X15	Initialize Wallet
0x16	E-wallet debit
0X17	E-wallet top-up
0x18	E-wallet read balance

3. Order

3.1 Set the baud rate, CMD=0x01

The command format is as follows:

0	1	2~3	4	5~6		7
start of frame	Device ID	Data length	Order	5 tone switch	6 baud rate	check
0x60	0x20	0x00 02	0x01	0x00 OFF, 0x01 ON	0x00~0x07	X

Where Byte6= 0x00 4800bps

0x01 9600bps

0x02 14400bps

0x03 19200bps

0x04 28800bps

0x05 38400bps

0x06 57600bps

0x07 115200bps

The format of the response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 00	0x01	0x41

eg. Set the baud rate to 9600bps

Command sent: 60 20 00 02 01 01 01 43

Successful response: 60 20 00 00 01 41

3.2 Query device address CMD=0x02

The command format is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	5 tone switch	check
0x60	0x20	0x00 01	0x02	0x00 OFF, 0x01 ON	X

The format of the response packet is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	Device address	check
0x60	0x20	0x00 01	0x02	X	X

eg: Get the baud rate of the device

Command sent: 60 20 00 01 02 01 42

Successful response: 60 20 00 01 02 20 63

3.3 Set device address CMD=0x03

The command packet format is as follows:

0	1	2~3	4	5~6		7
start of frame	Device ID	Data length	Order	5 tone switch	6 New Device ID	check
0x60	0x20	0x00 02	0x03	0x00 OFF, 0x01 ON	X	X

The format of the response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 01	0x03	0x42

eg. Set the device address to 0x21

Command sent: 60 20 00 02 03 01 21 61

Successful response: 60 21 00 00 03 42

3.4 Set working mode CMD=0x04

The command packet format is as follows:

0	1	2~3	4	5~13	14
start of frame	Device ID	Data length	Order	Working mode parameters	check
0x60	0x20	0x00 09	0x04	XX...XX	X

Description of working parameters (Byte6~Byte13):

Byte5	The current command prompt tone switch 0x00 is off, 0x01 is on
Byte6	Card reader working mode 0x01: command mode, 0x02 active card reading number, 0x03 active reading data, 0x04 active card reading number and data
Byte7	Block address in automatic read block data mode, 0x00~0xFF
Byte8	Upload mode in automatic card reading mode Equal to 0x00 Active upload data, equal to 0x01 Command upload data
Byte9	Prompt switch in automatic card reading mode, equal to 0x00 to turn off, equal to 0x01 to turn on
Byte10	Prompt sound duration in automatic card reading mode
Byte11	Card reading interval in automatic card reading mode
Byte12	Whether to read continuously in automatic card reading mode, equal to 0x00, read once, equal to 0x01, read continuously
Byte13	Sector address in auto-reading mode, equal to 0x00~0x27, valid in auto-reading sector mode

The format of the response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 00	0x04	0x44

eg: set working mode

Command sending: 60 20 00 09 04 01 02 00 00 01 1E 0A 00 01 5A

Successful response: 60 20 00 00 04 44

3.5 Get working mode CMD=0x05

The command packet format is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	5 tone switch	check
0x60	0x20	0x00 01	0x05	0x00 OFF, 0x01 ON	X

The format of the response packet is as follows:

0	1	2~3	4	5~12	13
start of frame	Device ID	Data length	Order	Working mode parameters	check
0x60	0x20	0x0008	0x05	XX..XX	X

Description of the obtained working parameters (Byte5~12)

Byte5	Card reader working mode 0x01: command mode, 0x02 active card reading number, 0x03 active reading data, 0x04 active card reading number and data
Byte6	Block address in automatic read block data mode, 0x00~0xFF
Byte7	Upload mode in automatic card reading mode Equal to 0x00 Active upload data, equal to 0x01 Command upload data
Byte8	Prompt switch in automatic card reading mode, equal to 0x00 to turn off, equal to 0x01 to turn on
Byte9	Prompt sound duration in automatic card reading mode
Byte10	Card reading interval in automatic card reading mode
Byte11	Whether to read continuously in automatic card reading mode, equal to 0x00, read once, equal to 0x01, read continuously
Byte12	Sector address in auto-reading mode, equal to 0x00~0x27, valid in auto-reading sector mode

eg. Get working mode parameters

Command sent: 60 20 00 01 05 01 45

Successful response: 60 20 00 08 05 02 00 00 01 1E 0A 00 01 5B

3.6 Set the read/write key KeyA+Control word+KeyB CMD=0x06

The command packet format is as follows:

0	1	2~3	4	5	6~21	22
start of frame	Device ID	Data length	Order	beep	KeyA+Control word+keyB	check
0x60	0x20	0x00 11	0x06	0x00 OFF, 0x01 ON	16Byte	X

Read and write key (Byte6~Byte21) description:

Byte6~Byte11	Byte12~Byte15	Byte16~Byte21
6Byte KeyA	4Byte control word	6Byte KeyB

The format of the response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 00	0x06	0x46

eg. Set KeyA, Control Word, KeyB

Command sending: 60 20 00 11 06 01 FF FF FF FF FF FF 07 80 69 FF FF FF FF FF 47

Successful response: 60 20 00 00 06 46

3.7 Set backup key CMD=0x07

The command format is as follows:

0	1	2~3	4	5	6~11	12
start of frame	Device ID	Data length	Order	beep	backup key	check
0x60	0x20	0x0007	0x07	0x00 OFF, 0x01 ON	6Byte	X

Note: The backup key is reserved for subsequent use

The format of the response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 00	0x07	0x47

eg. set backup key

Command sending: 60 20 00 07 07 01 FF FF FF FF FF FF 41

Successful response: 60 20 00 00 07 47

3.10 control buz&Led CMD=0x0A

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	control time	check
0x60	0x20	0x00 01	0x0A	X	X

buz&Led control time T=Byte5 * 10ms

The format of the response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 00	0x0A	0x4A

eg. Control Buz&LED 100ms

Command sent: 60 20 00 01 0A 0A 41

Successful response: 60 20 00 00 0A 4A

3.11 Restore factory state CMD=0x0E

The command packet format is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	beep switch	check
0x60	0x20	0x00 01	0x0E	0x00 OFF, 0x01 ON	X

The format of the response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 00	0x0E	0x4E

Note: Please use the command to restore the factory state with caution. After executing this command, all the information set by the user will be lost, and the card reader will be restored to the factory

In addition, due to the limitation of the number of times of erasing and writing of Flash, frequent erasing and writing will also cause bad areas or complete damage to the Flash.

damage, thus leading to irreversible failure of the device!

eg. Restoring the factory state

Command sent: 60 20 00 01 0E 01 4E

Successful response: 60 20 00 00 0E 4E

3.12 Get version number CMD=0x0F

The command packet format is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	5 tone switch	check
0x60	0x20	0x00 01	0x0F	0x00 OFF, 0x01 ON	X

The format of the response packet is as follows

0	1	2~3	4	5~n	n+1
start of frame	Device ID	Data length	Order	version number	check
0x60	0x20	X X	0x0F	X	X

eg. Get the version number

Command sending: 60 20 00 01 0F 01 4F

Successful response: 60 20 00 10 0F 4D 33 36 35 30 41 2D 56 31 2E 30 20 31 30 30 31 27 //

"M3650A-V1.0 1001 "

3.13 Command to upload data CMD=0x10

The command packet format is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	5 tone switch	check
0x60	0x20	0x00 01	0x10	0x00 OFF, 0x01 ON	X

The successful response format is as follows:

0	1	2~3	4	5~N	N+1
start of frame	Device ID	Data length	Order	data	check
0x60	0x20	X X	0x10	XX..XX	X

The format of the failure response is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	status code	check
0xE0	0x20	0x0001	0x10	X	X

eg. Command sending: 60 20 00 01 10 01 50

Successful response: 60 20 00 07 10 02 04 00 DA 72 64 55 C8

Fail response: E0 20 00 01 10 A0 71

Supplementary instructions: For the automatic upload command, please refer to the data format of the automatic card reading part 4 for the format of the successful response data.

3.14 Get card UID CMD=0x11

The command packet format is as follows:

0	1	2~3	4	5	6	7	8
start of frame	Device ID	Data length	Order	beep	card search mode	Antenna reset time	check
0x60	0x20	0x0003	0x11	0x00 OFF 0x01 ON	IDLE=0x26 ALL= 0x52	X	X

Byte6 is the card search mode: IDLE mode is 0x26, ALL mode is 0x52

Byte7 is the antenna reset duration, in ms; when the byte is not 0, the card reader will perform RF reset first, which is equivalent to the card executing

Once powered off and then powered on again, the suspended card or radio frequency tag will re-enter the IDLE state

The format of the response packet is as follows:

0	1	2~3	4	5~n	n+1
start of frame	Device ID	Data length	Order	Card type code + UID	check
0x60	0x20	X X	0x11	XX..XX	X

Card type code length: 2Byte

Card UID: 4Byte/7Byte/10Byte

The format of the response packet is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	status code	check
0xE0	0x20	0x0001	0x11	X	X

Status code: The error status code of the instruction execution, refer to Part 5 of the document

eg. Read M1 card UID

Command sent: 60 20 00 03 11 01 26 00 75

Successful response: 60 20 00 06 11 04 00 DA 72 64 55 CA , of which 04 00 is the card type code, and DA 72 64 55 is the card number

Failure response: E0 20 00 01 11 A2 72 , where the status code is 0xA2

3.15 Read M1 card data (using the read/write key stored in the card reader) CMD=0x12

The command packet format is as follows:

0	1	2~3	4	5	6	7	8	9
start of frame	Device ID	Data length	Order	beep	card search mode	Authentication mode	data block address	check
0x60	0x20	0x0004	0x12	0x00 OFF	IDLE=0x26	KEYA=0x60	X	X

				0x01 ON	ALL= 0x52	KEYB=0x61		
--	--	--	--	---------	-----------	-----------	--	--

Data block address: value range 0x00~0xff

Before operating this command, make sure that the read-write key has been set, and the current key of the card is the same as the set key

The format of the successful response packet is as follows:

0	1	2~3	4	5~20	21
start of frame	Device ID	Data length	Order	card data	check
0x60	0x20	0x0010	0x12	XX..XX	X

The format of the failure response packet is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	status code	check
0xE0	0x20	0x0001	0x12	X	X

eg. Read M1 card Block1, in IDLE mode, verify KEYA

Send command: 60 20 00 04 12 01 26 60 01 10

Successful response: 60 20 00 10 12 00 00 00 00 00 00 00 00 00 00 00 00 00 01 43

Fail response: E0 20 00 01 12 A2 71

3.16 Write M1 card data (using the key stored in the card reader) CMD=0x13

The command packet format is as follows

0	1	2~3	4	5	6	7	8	9~24	n+1
start of frame	Device ID	Data length	Order	beep	card search mode	Authentication mode	数据块地址	要写入的数据	check
0x60	0x20	0x0014	0x13	0x00 OFF 0x01 ON	IDLE=0x26 ALL= 0x52	KEYA=0x60 KEYB=0x61	X	XX..XX	X

Data block address: the value is 0x00~0xff, please check the data manual of the card to avoid misoperation of the key block, which may cause damage to a single sector of the card;

Cards of different capacities contain different numbers of data blocks, according to the card manual

Written data: fixed to 16Byte

Before operating this command, make sure that the read-write key has been set, and the current key of the card is the same as the set key

The format of the successful response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check

frame	ID	length		
0x60	0x20	0x00 00	0x13	0x53

The format of the failure response packet is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	status code	check
0xE0	0x20	0x0001	0x13	X	X

eg. write data block 1

Send command: 60 20 00 14 13 01 26 60 01 11 22 33 44 55 66 77 88 99 aa bb cc dd ee ff 10 11

Successful response: 60 20 00 00 13 53

Fail response: E0 20 00 01 13 A2 70

3.17 Sector encryption CMD=0x14

The command packet format is as follows:

0	1	2~3	4	5	6	7	8	9~14	15
start of frame	Device ID	Data length	Order	beep	card search mode	Authentication mode	扇区地址	当前密钥	check
0x60	0x20	0x000A	0x14	0x00 OFF 0x01 ON	IDLE=0x26 ALL= 0x52	KEYA=0x60 KEYB=0x61	X	XX..XX	X

Sector address: sector address of M1 card; 1K capacity M1 card, the value range of sector address is 0x00~0x0F, a total of 16 sectors

4K capacity M1 card, the range of sector address is 0x00~0x27, a total of 40 sectors

Current secret key: The current secret key of the card. The default default value is 0xFF FF FF FF FF FF. If the secret key of the card has been changed, please subject to actual

Supplement 1: When the sector encryption command is called, the card reader will take the read and write keys stored in the card and write them into the key area of the corresponding sector of the card.

The key stored in the card reader is set by the user. For details, please refer to <3.6 Setting the Read/Write Key>

Supplement 2: Sector encryption is equivalent to writing data to the key block of the card. Users can also call the write M1 card data command. For details, please refer to

According to <3.15 Write M1 card data>, directly write the 16Byte key sequence <KeyA+control word+KeyB> to the key area The format of the successful response packet is as follows:

0	1	2~3	4	5
start of frame	Device ID	Data length	Order	check
0x60	0x20	0x00 00	0x14	0x54

The format of the failure response packet is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	status code	check
0xE0	0x20	0x0001	0x14	X	X

eg. Modify the key of sector 0, the current key of the card is 0xFF FF FF FF FF FF

Command sending: 60 20 00 0A 14 01 26 60 00 FF FF FF FF FF FF 19

Successful response: 60 20 00 00 14 54

Fail response: E0 20 00 01 14 A2 77

3.18 Initialize Wallet CMD=0x15

The command packet format is as follows:

0	1	2~3	4	5	6	7	8	9~12	13
start of frame	Device ID	Data length	Order	beep	card search mode	Authentication mode	data block address	initial value	check
0x60	0x20	0x0008	0x15	0x00 OFF 0x01 ON	IDLE=0x26 ALL= 0x52	KEYA=0x60 KEYB=0x61	X	XX..X X	X

Data block address: Please refer to the card data manual, the address can only use the user data area, can not use 0 sector 0 block and all secrets.

key block

Initial value: the initial value of the electronic wallet, low first, negative numbers are represented by one's complement

Before operating this command, make sure that the read-write key has been set, and the current key of the card is the same as the set key

The format of the successful response packet is as follows:

0	1	2~3	4	5~8	9
start of frame	Device ID	Data length	Order	balance	check
0x60	0x20	0x0004	0x15	XX..XX	X

失败的 The format of the response packet is as follows:

0	1	2~3	4	5	6
start of frame	Device ID	Data length	Order	status code	check
0xE0	0x20	0x0001	0x15	X	X

eg. Initialize electronic wallet, block 1, initial value 100

Send command: 60 20 00 08 15 01 26 60 01 64 00 00 00 7F

Successful response: 60 20 00 04 15 64 00 00 00 35

Fail response: E0 20 00 01 15 A2 76

3.19 E-wallet debit CMD=0x16

The command packet format is as follows:

0	1	2~3	4	5	6	7	8	9~12	13
start of frame	Device ID	Data length	Order	beep	card search mode	Authentication mode	data block address	Debit value	check
0x60	0x20	0x0008	0x16	0x00 OFF 0x01 ON	IDLE=0x26 ALL= 0x52	KEYA=0x60 KEYB=0x61	X	XX..XX	X

Data block address: Please refer to the card data manual, the address can only use the user data area, can not use 0 sector 0 block and all secrets.

keyblock; make sure the block to be manipulated has been initialized as a wallet

Deduction value: the value to be deducted by the e-wallet, the lower value is in the front, and the negative number is represented by the inverse code

Before operating this command, make sure that the read-write key has been set, and the current key of the card is the same as the set key

The format of the successful response packet is as follows:

0	1	2~3	4	5~8	9
start of frame	Device ID	Data length	Order	balance	check
0x60	0x20	0x0004	0x16	XX..XX	X

eg. Deduction, block 1, deduction value 58

Command sent: 60 20 00 08 16 01 26 60 01 3A 00 00 00 22

Successful response: 60 20 00 04 16 2A 00 00 00 78

Fail response: E0 20 00 01 16 A2 75

3.20 E-wallet recharge CMD=0x17

The command packet format is as follows:

0	1	2~3	4	5	6	7	8	9~12	13
start of frame	Device ID	Data length	Order	beep	card search mode	Authentication mode	data block address	recharge	check
0x60	0x20	0x0008	0x17	0x00 OFF 0x01 ON	IDLE=0x26 ALL= 0x52	KEYA=0x60 KEYB=0x61	X	XX..XX	X

Data block address: Please refer to the card data manual, the address can only use the user data area, can not use 0 sector 0 block and all secrets.

keyblock; make sure the block to be manipulated has been initialized as a wallet

Recharge value: the value to be recharged in the e-wallet.

Before operating this command, make sure that the read-write key has been set, and the current key of the card is the same as the set key

The format of the successful response packet is as follows:

0	1	2~3	4	5~8	9
start of frame	Device ID	Data length	Order	balance	check
0x60	0x20	0x0004	0x17	XX..XX	X

eg. recharge, block 1, recharge 58

Command sent: 60 20 00 08 17 01 26 60 01 3A 00 00 00 23

Successful response: 60 20 00 04 17 64 00 00 00 37

Fail response: E0 20 00 01 17 A2 74

3.21 E-wallet read balance CMD=0x18

The command packet format is as follows:

0	1	2~3	4	5	6	7	8	9
start of frame	Device ID	Data length	Order	beep	card search mode	Authentication mode	data block address	check
0x60	0x20	0x0004	0x18	0x00 OFF 0x01 ON	IDLE=0x26 ALL= 0x52	KEYA=0x60 KEYB=0x61	X	X

Data block address: Please refer to the card data manual, the address can only use the user data area, can not use 0 sector 0 block and all secrets.

keyblock; make sure the block to be manipulated has been initialized as a wallet

The format of the successful response packet is as follows:

0	1	2~3	4	5~8	9
start of frame	Device ID	Data length	Order	balance	check
0x60	0x20	0x0004	0x18	XX..XX	X

eg. read e-wallet balance, block 1

Command send: 60 20 00 04 18 01 26 60 01 1A

Successful response: 60 20 00 04 18 64 00 00 00 38

4. Description of automatic card reading mode

4.1 Automatic card number reading mode

The output format is as follows:

0	1	2~3	4	5	6~7	8~N	N+1
start of frame	Device ID	Data length	Order	Operating mode	Card Type	Card number	check

					Code	UID	
0x60	0x20	X X	0x10	0x02	X X	XX..XX	X

eg. 4Byte UID card: 60 20 00 07 10 02 04 00 DA 72 64 55 C8

7Byte UID card: 60 20 00 0A 10 02 44 03 04 42 52 A2 B0 65 80 FC

4.2 Auto read data mode

The output format is as follows:

0	1	2~3	4	5	6~21	22
start of frame	Device ID	Data length	Order	Operating mode	data	check
0x60	0x20	0x0011	0x10	0x03	X X..XX	X

Data: fixed active read one block, output 16Byte

eg. 60 20 00 11 10 03 DA 72 64 55 99 88 04 00 85 00 B4 2E F0 BB 6A A8 58

4.3 Automatically read card number and data pattern

The output format is as follows:

0	1	2~3	4	5	6~n	n+1~n+16	n+17
start of frame	Device ID	Data length	Order	Operating mode	Card number UID	data	check
0x60	0x20	X X	0x10	0x04	X X..XX	XX..XX	X

Card number UID: length is 4Byte/7Byte/10Byte

Data: fixed active read one block, output 16Byte

eg. 60 20 00 17 10 04 04 00 DA 72 64 55 DA 72 64 55 99 88 04 00 85 00 B4 2E F0 BB 6A A8 C4

Among them, working mode: 0x04, card type code: 04 00 card number UID: DA 72 64 55

Data: DA 72 64 55 99 88 04 00 85 00 B4 2E F0 BB 6A A85.状态码

0x00	execution succeed
0xA0	Failed to upload data automatically, data does not exist
0xA1	Parameter error
0xA4	Failed to read M1 card data
0xA5	Failed to write data to M1 card
0xAB	Operation timed out
XAC	unknown mistake