MR730 Network Interface Configuration Manual

（Revision 1.00）

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Please read this manual carefully before using this product. If you have any questions, please contact us and we will give you detailed answers.

Contents

一 Factory Configuration

1. Configuration Information

Working mode	TCP Server
IP address	192.168.1.10
Subnet mask	255.255.255.0
Gateway address	192.168.1.1
Port number	1000
Web login IP	Same IP address
Web login username	admin
Web login password	123

2. Restore the original settings

The reader is powered off, P2 is short-circuited, the reader is powered on, and after the duration is >1s, P2 is disconnected, the reader automatically restarts, and the parameters are restored to default. See the table above for details.

二 Reader Configuration

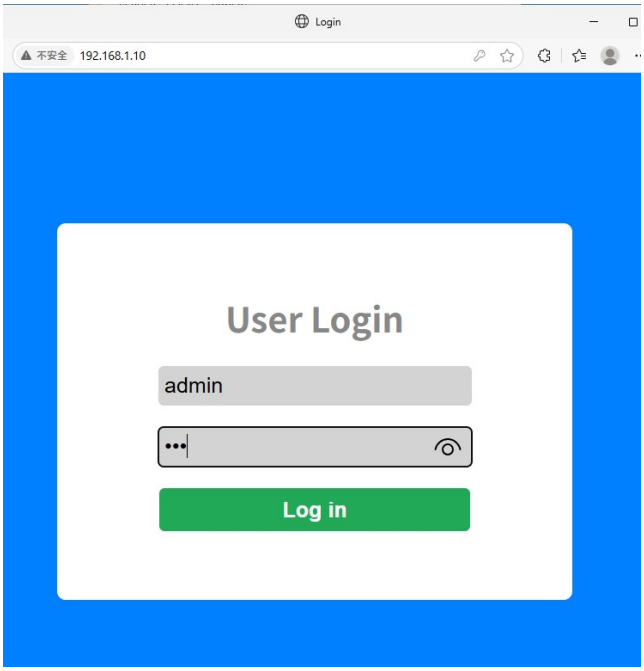
1. Restore factory settings

For detailed operations, please refer to Chapter 1, Section 2.

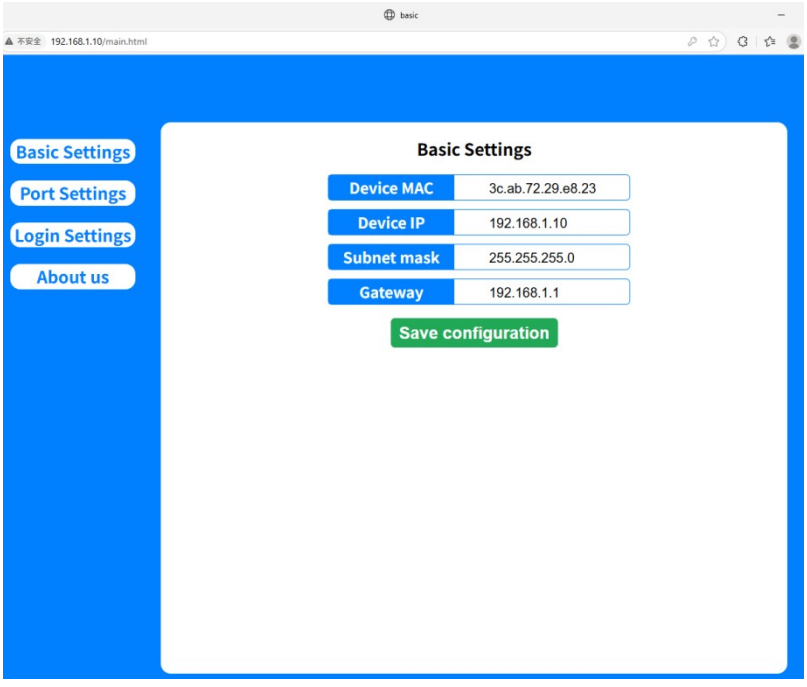
2. Web interface configuration

2.1 Default login information

Enter the URL: 192.168.1.10
Enter the login username: admin
Enter the password: 123
Click Log in
As shown below.



2.2 Main Interface

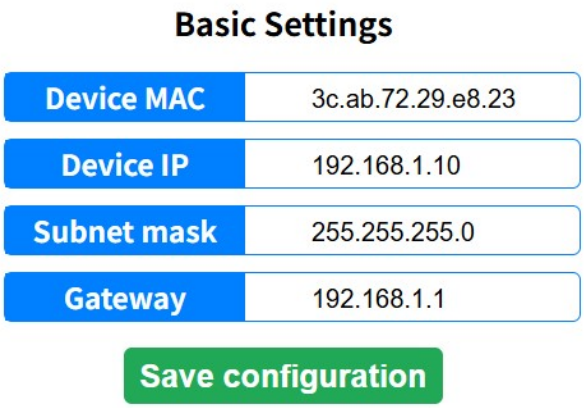


2.3 Function Introduction

Note: After the configuration is saved successfully, it will take effect after restart.

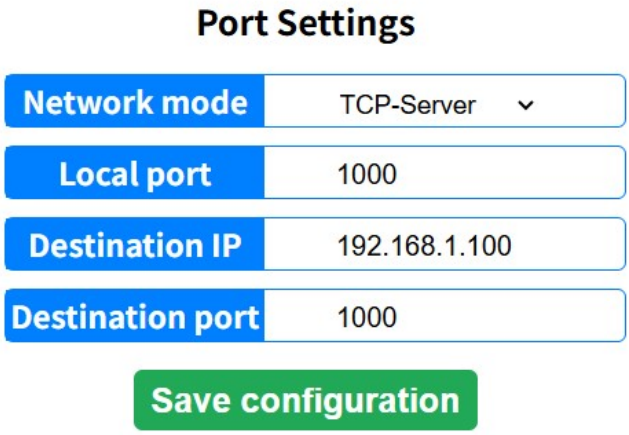
2.3.1 Basic Setting

Mainly displays and sets local network information: MAC, IP, SubnetMask, Gateway.



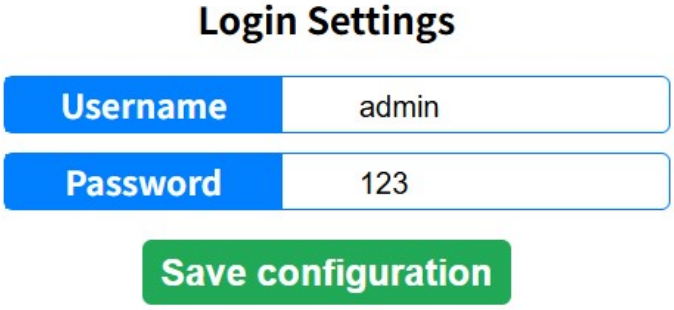
2.3.2 Port Setting

Set the working mode, local port number, target IP and target port number.



2.3.3 Login Settings

Modify login name and password



2.3.4 About us

Company Profile

3. Command interface configuration

Note: Configuration data takes effect after restart.

3.1 Communication Protocol

3.1.1 Host computer command format

Header +Length + Device identifier + Instruction code + Instruction content + Checksum

Header: 2BYTE, 0xAABB

Length: 2BYTE, (1BYTE, the number of bytes from the device identifier to the check word + 1BYTE inverted)

Device identifier: 2BYTE (high byte first, the document takes 0x0001 as an example)

Instruction code: 1BYTE
Instruction content: instruction message (can be empty)

Checksum: 1BYTE, byte-by-byte XOR from the length word inverted to the instruction content

Note: If there is a byte = AA from the length word to the check word, it will be followed by a byte 00 to distinguish the instruction header, and the length word remains unchanged.

3.1.2 Card reader response format

Header +Length + Device identifier + Command code + Status + Data + Checksum

Header: 2BYTE, 0xAABB
Length word: 2BYTE, 1BYTE from the device identifier to the check word + 1BYTE inverted
Device identifier: 2BYTE (high byte first, the document takes 0x0001 as an example)
Instruction code: 1BYTE
Status word: 1BYTE, 0 = success
Data: returned data
Check word: 1BYTE, XOR from the length word inverted to the data content

3.2 Setting local parameters

	Header	Length	Device id	Command	Status	Data	Checksum
PC send	0xAABB	0x11EE	0xXXXX	0xF3	no	0x01 + Config	0xXX
Device Return	0xAABB	0xXXXX	0xXXXX	0xF3	0	no	0xXX

Config: DeviceIP+Subnetmask+Gateway。

DeviceIP: 4 bytes, hexadecimal

Subnetmask: 4 bytes, hexadecimal

Gateway: 4 bytes, hexadecimal

Example:

Set DeviceIP ： 192.168.1.2

Subnetmask ： 255.255.255.0

Gateway ： 192.168.1.1

PC Send: AA BB 11 EE 00 00 F3 01 C0 A8 01 02 FF FF FF 00 C0 A8 01 01 E0

3.3 Set TCP working mode and local port

	Header	Length	Device id	Command	Status	Data	Checksum
PC send	0xAABB	0x08F7	0xXXXX	0xF3	no	0x02 + Mode + Localport	0xXX
Device Return	0xAABB	0xXXXX	0xXXXX	0xF3	0	no	0xXX

Mode: Working mode

0x00: TCP Server

0x01: TCP Client

LocalPort: The port number is 2 bytes, in hexadecimal.

Example: Set the working mode to TCP Server, port number: 1000

PC Send: AA BB 08 F7 00 00 F3 02 00 03 E8 ED

3.4 Set the target address and target port number

Works effectively in TCP Client mode

	Header	Length	Device id	Command	Status	Data	Checksum
PC send	0xAABB	0x0BF4	0xXXXX	0xF3	no	0x03 + IP + Port	0xXX
Device Return	0xAABB	0xXXXX	0xXXXX	0xF3	0	no	0xXX

IP: Target IP. 4 bytes, hexadecimal

Port: Target port number. 2 bytes, hexadecimal

Example: Set IP to 192.168.1.2, port number: 1000

PC Send: AA BB 0B F4 00 00 F3 03 C0 A8 01 02 03 E8 84

3.5 Set the login name for the web interface

	Header	Length	Device id	Command	Status	Data	Checksum
PC send	0xAABB	0xXXXX	0xXXXX	0xF3	no	0x04 + username	0xXX
Device Return	0xAABB	0xXXXX	0xXXXX	0xF3	0	no	0xXX

Username: Username (in ASCII format, up to 10 characters)

Example: Set username to admin

PC Send: AA BB 0A F5 00 00 F3 04 61 64 6D 69 6E 6D

3.6 Set the web interface login password

	Header	Length	Device id	Command	Status	Data	Checksum
PC send	0xAABB	0xXXXX	0xXXXX	0xF3	no	0x05 + pw	0xXX
Device Return	0xAABB	0xXXXX	0xXXXX	0xF3	0	no	0xXX

PW: Password (in ASCII format, up to 10 characters long)

Example: Set PW to 123

PC Send: AA BB 08 F7 00 00 F3 05 31 32 33 31

3.7 Device restart

	Header	Length	Device id	Command	Status	Data	Checksum
PC send	0xAABB	0x0CF3	0xXXXX	0xF3	no	0xF0 + FLAG	0xXX
Device Return	0xAABB	0xXXXX	0xXXXX	0xF3	0	no	0xXX

FLAG: 0x72 0x65 0x73 0x74 0x61 0x72 0x74

Example:

PC Send: AA BB 0C F3 00 00 F3 F0 72 65 73 74 61 72 74 87