# HNC HCC-A8 Series IIoT Cloud PLC User's Manual

# HCC-A8





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### **1. Product Description**

#### **Product Introduction**

#### 1.1 Main Functions

The HNC HCC-A8 series Internet of Things (IoT) PLC is a small-sized, compact device that integrates PLC, HMI, IoT, multi-function RTU, and data transmission DTU functions into one unit. It can be easily managed through a mobile app and a cloud-based website. It is industrial automation monitoring and management equipment that can run embedded system software, specifically HNC configuration engineering. It monitors the industrial field situation through the mobile phone app and the HCC-A8 operation screen of the cloud website. It can also communicate with various industrial control equipment to collect data and upload it to the cloud for further application.

### **1.2 Functional Characteristics**

Integrate the Human-Machine Interface (HMI) function, allowing direct monitoring of the display screen via a mobile phone or PC instead of the HMI screen. This provides flexible and convenient control.

- Supports functions such as A/B key security mechanism, multi-unit network, database management, multi-screen interaction, and cloud camera remote monitoring.
- Support MQTT protocol and access to database server, easily realizes data collection and reporting, interconnect with ERP/MES and other systems.
- Support TCP/IP network communication.
- The machine has PLC function, with 8 input points and support for expanding up to 15 card PLC modules.
- Support Cloud configuration, with a built-in HNC Cloud engine, integrated HNC Cloud service, and support cloud/mobile access control.
- Standard with 1\*RJ45 port, 1\*serial port, WiFi, optional 4G, and rail installation
- ◆ PLC program capacity: 48K, basic instruction: 0.05µs
- Self-diagnosis, power failure protection, real-time clock(RTC), floating-point arithmetic, etc.
- Three levels of password protection are available (project file password, PLC password, separate program block password) to prevent unauthorized program uploads.

Model	Storage	Max Exp	I/O Interface	LAN	СОМ	WIFI	Wireless Network	Dimension (mm) W*H*D
HCC-A8	4G+512M	15	8 DI	1	1	Yes	None	
HCC-A8-E	4G+512M	15	8 DI	1	1	Yes	Global 4G	40×95×65

### 1. Product List

### 2. Product Specifications

Мо	odel	HCC-A8	HCC-A8-E
	Input Power Supply	24VDC:	±20%
Power supply	power consumption	<8'	N
parameters	Power protection	With surge	protection
	Withstand voltage	500V	AC

	Environmental Temperature and Humidity	Operating temperature: -	10~+60℃, storage temperatu 10~90%RH, no condensation	ıre: -20~70+℃, humidity: ı
	Vibration Resistance	10~57HZ amplitude 0.07	75mm, acceleration 1G, X, Y, times each	Z three axis direction 10
Environmentel	Impact Resistance	15G, continuous	11ms, X, Y, Z three axis direc	tion 6 times each
Parameters	Insulation Resistance	500VDC between AC terr bet	ninals and ground terminals, ween all input and output poi	more than 5MΩ (500VDC nts)
	Usage Environment	Dust-proof, moisture proo	of, corrosion proof, against el impact for other environment	ectric shock and external
	Degree of protection	The whole	machine passed 48-hour sal	t spray test
	Cooling method		Natural cold air	
	Storage		Flash 4GB,RAM 512MB	
	Serial communication	Support 1	isolated communication port	t (RS485)
	Ethernet	On	e Ethernet port: 10/100 Base	-Tx
	Hardware system reset		Yes	
	Switch S0	S	PDT(single-pole double-throv	v)
Hardwara	WIFI function		Yes	
parameters	4G capability	/	4G Fit all kinds of networks	Global 4G
	SIM card interface	1	One self-ejecting N	licro SIM card port
	I/O port	8-way	optical isolation digital point	input
	Dimensions	40	0mm*95mm*65mm(W*H*D)	)
	Shell material	ABC+PC(flame retardan	t requirements: 94V0, in line	with ROHS requirements)
	RoHS		Conform to RoHS	

### 3. PLC partial performance specifications

Items	Performance Specification
Program control method	Periodic Cyclic scan method
Input/output (I/O) control method	Refresh once per scan cycle, support to refresh order immediately (host and expansion modules)
Instruction processing speed	0.05µs/basic instruction
Programming language	LD (ladder diagram) +FBD (function block diagram) +IL (instruction table)
Program capacity	48K
Storage method	Flash ROM is permanently stored without a backup battery

Communication protocol	Modbus RTU/ASCII protocol, free communication protocol, HNCbus high-speed communication protocol, baud rate 1200~115200bps
Hardware scalability	15 expansion modules can be expanded
Floating-point arithmetic instruction	Provides floating point operations for data up to 32 bits, integer/floating point conversion operations
Password protection	Three levels of password protection are available (project file password, PLC hardware password, separate block password) to prevent unauthorized program uploads.

### **Indicator Description**

1. PWR: Power indicator-Green. Lighting - The power supply is normal. Lighting failed -The power supply is abnormal.

2. RUN: Running indicator-Green. Lighting - Part of the Programmable Logic Controller (PLC) is running;Lighting failed - PLC part is halt.

3. COM: Communication-Green. Blinking - Communicating normally. The blinking frequency indicates the speed of communication. Lighting failed - No communication.

4. ERR: Error indicator-Red. Lighting - Hardware failure; Blinking - Soft fault. Off - Normal.

The user needs to make corresponding processing according to the different status of the error indicator, as shown in the following table:

Method of reference processing	Indicator classification	ERR Indicator status
Normal	No error	Lighting failed
If normal, only the user is alerted to lock data	Components for locking data in the PLC part	Blinking red: The indicator is on for 0.2 second and off for 0.8 second
Modify PLC part of hardware configurations	The software setting problem,allows the user program to continue running	Blinking red: The indicator is on for 0.2 second and off for 0.8 second
Check module parallel bus (check RTC battery; Check power supply to the expansion module)	If the communication between modules is abnormal, the abnormal module is automatically removed and the user program can continue to run	Blinking red: The indicator is on for 0.8 second and off for 0.2 second
Re-upgrade the system firmware or modify the user program	The firmware or user program is abnormal, and the user program cannot work	Blinking red: The indicator is on for 0.5 second and off for 0.5 second
Depot repair	The hardware is fault. User programs cannot work	Red light on

### 4. Switching Input (DI) specifications

Items	Switch Value Input DI	
Input signal	No voltage contact or NPN/PNP	
Action Driver	ON: more than 3.5mA, OFF: less than 1.5mA	
Input Resistance	About 4.3KΩ	
Input Maximum Current	10mA	
Response Time	The default value is 6.4ms. The value ranges from 0.8 ms to 51.2ms	
Way of Isolation	Individual photoelectric isolation per channel	
Input Indication	When the LED is lighting, it means ON. When the LED is off, it means OFF.	
Power Input	PLC host internal power supply: DC Power(SINK or SOURCE) 5.3mA @ 24VDC	

### 5. HCC-A8 Supporting Software

- HCC-A8 needs to be used together with HTCloud Designer HMI configuration software and HPMaster PLC programming software, please download it from the download center of HNC official website:
   www.hncelectric.com.
- HNC cloud service is recommended to download HNC Cloud APP.
- HNC Cloud APP Download:
  - > Scan the QR code below directly to download;



> IOS terminals can be downloaded by searching for ""IoTbus" in the Apple Store.

#### 6. HCC-A8 Outline Diagram





HCC-A8 main view of the shell	ICC-A8 right view of shell	HCC	-A8 bottom view of the shell
1.Input point channel light and WIFI, 4	G communication light		9. RS485 wire terminal
2.PWR Power indicator, RUN indica	tor, COM communicatior	indicator, ERR	10.DC24V power supply
error indicator			terminal
3.Reset button			11.4G antenna interface
4.Running switch			12.Module hook
5.Ethernet port			13.WIFI antenna interface
6.Terminal definition			14.Module location hole
7.Removable wire terminal			15.Expansion port
8.Guideway bayonet			16.35mm DIN rail

#### 6. HCC-A8 Device DI port

HNC HCC-A8 built-in 8 photoelectric isolation digital point input, can be connected to external switching contact, support source type and sink type input, as shown below:

Model No.	I/O Configuration
HCC-A8	8-way optical isolation digital point input

Wiring diagram:



### 二、PLC Software Instructions

#### 1.PLC Connection 1.1 Serial Connection

Step 1: Use USB to RS485 cable to connect HCC-A8 (RS485 communication port) and computer; Step 2: Open PLC programming software HPMaster, click PLC in the menu bar, select PLC online, or directly click PLC online in the toolbar;

	_	٥	×
Eile Edit View PLC Debug Iools Windows Help			
: 2 ☆ 2 • 3 ☆ 2 & 2 @ 6 • • • • • • ◎ 1 ≥ A   • • • × × 6 6 △ 2   • • # # @ 9   # ] > X   B   2 X   B   2 X   B			

Step 3: In the online window, select the corresponding COM port to connect, he factory default baud rate and data format is 19200 N,8,2 RTU. You are advised to select "Click Search" to click search stand-alone

G CON	T ZigBaa	C TOP/P	
(• COM	j zigbee	TCP/IP	
Parameters			
	PC Port COM3 -		Start address: 1 🤤
	Baud rate: COM1	]	End address: 1
	COM3		
	Data format: N,8,2 RTU	-	Find
C Find standalou			1
<ul> <li>Fillu stanualui</li> </ul>	le		
<ul> <li>Append to lis</li> </ul>	t	C Overlay the list	
			Online

Step 4: After the connection is successful, the current online HCC-A8 will appear in the connection window. Click Exit to download the HCC-A8 program and other operations.

Online mode		
	e C TCP/IP	
Parameters		
PC Port.	сомз 💌	Start address: 1
Baud rate:	115200 -	End address: 🔟 😂
Data format.	N,8,2 RTU 🗾	Find
Find standalone		timeout 200 ᅌ m
Append to list	C Overlay th	e list
Address:1 P	LC	Online

#### Ethernet Connection

Step 1 Connect one end of the network cable to the Ethernet port of the PLC and the other end to the LAN port of the switch or router.

Step 2: Change the IP address of the computer to the same network segment as HCC-A8. The default IP address of HCC-A8 is 192.168.1.112.

Step 3: Open the online window, enter the corresponding IP address, and then click "Online". After the connection is successful, the current online HCC-A8 appears in the connection window. Click Exit to download the HCC-A8 program and other operations.

Online mode				
ССОМ	☐ ZigBee	TCP/IP		
Parameters				
	IP address:	192 . 168 . 1 . 112		
Find standalone			timeout:	200 🗘 ms
Append to list		C Overlay the list		
<ul> <li>Append to list Address:1</li> </ul>	PLC	C Overlay the list		Online
Append to list Address:1	PLC	C Overlay the list		Online
<ul> <li>Append to list Address:1</li> </ul>	PLC	C Overlay the list		Online
Append to list Address:1	PLC	C Overlay the list		Online
Append to list Address:1	PLC	C Overlay the list		Online

#### 1. Upload/Download The Project

#### • Select equipment model

Step 1: Open PLC programming software HPMaster, click [File], click establish new program project; Step 2: Select PLC series in the new program project pop-up window, select IoT PLC;

Step 3: Select the CPU type, select HCC-A8, click [OK];

	V2.2.13.231128								
File	Edit View PLC D	ebua Ta	ools Windows Help						
1	New project	Ctrl+N			75   25 at at at a a a				
	New project	currit		- 1 ~ ~ ~ ~		22 22 10 11 1			
:	Open project	Chillo		4 ×					
	Open project	Cuito							
	Necent mes								
- D	<u>U</u> lose project		-						
B	<u>Save project</u>	Ctrl+S							
	Save project <u>a</u> s				New project				×
即	Generate PLC executab	le file			Di o outra			NUT TO LAD	
	Encrypt project				PLC Series:	Smartlink PLC		O Type: A8	<u> </u>
	Decrypt project				1.11.11.11.11.11.11.11.11.11.11.11.11.1	AT Series	1 million and the	Auto save: 6 🗘 M	Ainute .
6	Import		-		A8 (V0-V14847 M0-M12	AH Series	S0-S2047)		
4	Import				Smartlink CPU module	Smanlink PLC C Series	y LAN + 485 with wifi option	nal 4G	
- *	Export		M			T Series	1		
- 원	Print preview		m3			H Series			
6	Print	Ctrl+P	200,N,8,2 RTU		Power-off preservation ( Start component	Length	Start component	156-S255)	
	Project properties				v 1000	1048	T 96	32	lear
50	Exit	Alt+F4	0151129-011000000		4 1526	E10 1			ofoult
PL	C Switch postion	R	tun		M 1530 V	512 🗸	C 04 🗸	04 🗸 🕖	naun
O PL	C status	R	tun		S 156 🗘	100 🗘			
Ha	rdware state	M	latch			DI O annistat			
Ba	ttery voltage	N	lormal		Project name:	PLC project			
SV Dr	140 aram cizo	3	71		User name:				
Ve	sion	Z V	2213		Designer			Version	
Sc	an timeout	2	00		Designer.			Version. j	
Pa	ssword	N	0		Company:				
Pro	hibit upload	N	lo		Password:		Confir	m password:	
Lo 🗟	ck data	0			Data areata di 20	024/5/7 11:04:07		Hadified:	
IP	address	1	92.168. 15.111		Date Geated, 120	024/3/1 11:04:07		modified. [	
Su	onet mask	2	55.255.248. U		Comments:				
MA	Caddress	F	92.106.10.1 E EE EE EE EE EE						
CC	M1 Parameters	1	9200 E 8 1 RTU						<b>v</b>
CC	M1 timeout	2	00						
CC	M2 Parameters	1	15200,N,8,2 RTU					OK	Cancel
CC	M2 timeout	2	00		1				
Nu	mber of extension module	es 0							
CF	U Module	A	8 V1.1(1.2.414.1)						

#### • Download Project

Step 1: Click PLC in the menu bar, select to download PLC program , or click directly the "PLC program download" button in the toolbar;

Step 2: Click [Download] in the download program window.

	TA PGB.t	PLC Download (PC to	PLC)		
Unline PLC Versources & Component comme	Project manager //Network 1				
PLC project					
Program					
😑 💼 Main program					-(1
PGB:test					
🚽 💼 Sub program					
Int program					
I III Table					
Haiwellbus read table					
Haiwellbus write table					
Discrete bit table					
Discrete register table	6	PLC Developed (PC to PLC)			×
HI Reserve 1		PLC Download (PC to PLC)			~
H Initial register table		PC TO PLC			
Receive 2		PLC Name: Haiwell PL	C Hardware confid	Program capacity: 480	00
Bacana 2		PLC Address: 1	P	rogram 🔽 43 Used capacity: 113	
Component use table		Online mode: COM	Con	nments 🔽 0 Download size: 113	
Bewas off processed data			Initial registe	ar table:	
- We lostwore configuration			Power off preserve	ed data:	
lastrustian					
Chen instruction		Target PLC configuration:			
an Step Instruction		Туре	Project configuration	Target PLC configuration	Match
Bit instruction		Program size	113	271	
		Number of extension modules	0	0	Same
Counter		CPO Module	no	A0 VI. I(1.2.4 14.1)	Same
High speed control instruction					
Se Compare instruction					
a Shift instruction					
Data conversion instruction		-			
Character instruction					
File instruction		Prohibit upload	C Download and	clear PLC keeps running	
Rithmetical instruction				Down	nad Cancel
Floating point instruction				Down	
Clock instruction	l.				
Communication instruction					
Interrupt instruction					
Brogram control instruction					

#### • Upload project

Step 1: Click PLC in the menu bar, select PLC program upload, or click directly the "PLC program upload" button in the toolbar;

Step 2: Click [Upload] in the upload program window.

Note: If the "Do not Upload" option is checked when you download the project, this program cannot be uploaded.



#### 3. Update firmware

Step 1: Use the serial port RS485 to connect.

Note: Only the RS485 communication port is used for firmware updates on the HCC-A8.

Online mode				
COM □ Z	ZigBee	C TCP/IP		
Parameters				
PC F	Port: COM3 💌		Start address: 1 🗘	
Baud r	rate: 115200 💌		End address: 1 💲	
Data for	mat: N,8,2 RTU	•	Find	
Find standalone			timeout: 200	ms
Append to list		C Overlay the list		
Address:1	PLC		Onlin	е
				2
				2

Step 2: Click PLC in the menu bar and select [PLC Firmware Upgrade]. In the firmware upgrade popup window, open the update package file. The file can be downloaded from HNC official website: <u>www.HNC.com</u>. After selecting the corresponding firmware update package, click [Upgrade].



### 三、HTCloud Designer Software Instructions

### 1. Mobile APP quick access to HCC-A8

### 1.1 HCC-A8 Default Ex-factory Information

- The PN code can be found on the label attached to the machine.
- The WIFI hotspot function is enabled by default before delivery, and the mobile phone can connect to the device through WIFI.
- The default hotspot name is BOX-(the first six digits of the PN code)-(the last five digits of the PN code), and the default password is empty.
   For example, if the PN code is 7052117100880100005, the hotspot name is BOX-705211-00005.

### 1.2 Mobile APP connects to HCC-A8 hotspot

Turn on the WIFI of the mobile phone, find the HCC-A8 hotspot, connect the hotspot, and the network signal information will be displayed after the connection is successful.

### 1.3 Mobile APP access to HCC-A8

After the mobile phone connects successfully to the HCC-A8 hotspot, open the Cloud APP, click "Local device", pull down to refresh, etc., and display the connected HCC-A8 device information. Click to visit, you can access and operate the HCC-A8 project.

14:14 🔌		ul ବ 🗊
⊕ Q	Local Device	
TVBOX: 0		
Other device:	1	
A8 70916	<b>0507</b> 8.15.53/10.5.5.1 29002810174038	



### Click Direct Access to enter the access HCC-A8 project interface



#### 1.4 Set HCC-A8 background information on mobile APP

Access the HCC-A8 engineering interface, click , then can enter the HCC-A8 background Settings screen, set the HCC-A8 background information.

14:13 🖄		ul 🗟 🚯
<	192.168.15.53	3 @
Terminal Name:2024	40507	<del>章</del> English
Projo	ect 1	Network
Settin	ngs In	formation
Clou	ıd	Back
LAN	N:192.168.15.53()	using)
		-

#### 2.Cloud Access

#### 2.1 Connect the Hotspot to Bind Host

HCC-A8 and HCC-A8-G (with 4G routing function) can be connected to the Internet network by network cable connection, HCC-A8-G can also be connected to the Internet by 4G wireless routing after inserting the traffic card, the mobile phone connects to the HCC-A8 hotspot, search the local device in the cloud APP, the HCC-A8 device connected to the hotspot is displayed, and enter the HCC-A8 background setting interface. Click [Cloud Settings], click [Device binding], the "Binding Information" confirmation dialog box appears, click [OK] to bind the owner successfully, click [cancel] to cancel the binding to the owner.

	Cloud		Back
Cloud Switch: CloudState: • Online Device Name:Cloud Device	User Name	Type AKey	C Account 130****2028
Machine Code: 7091629002810174038 🗐			

#### 2.2 Scan the QR code for the binding owner

#### Normal User

Log in to the cloud APP on your mobile phone, enter the [Cloud Device] e interface, click the button  $\oplus$  in the upper left corner of the main interface, scan the QR code and add the device.

#### Binding Whitelisting

After add a device, common user applies for binding. After the application is approved, the user can become a whitelist.

The binding application is approved only when both the owner and administrator pass the binding application. If one side rejects the binding application, the binding application fails to be approved.

#### Bind Guest

After the binding application is approved, the user can apply for access. After the application is approved, the user can become a visitor.

The access request is approved by the reviewer for the owner or any administrator. If it is rejected, the audit is not approved.

#### Administrator

1. When applying for binding, you can select Administrator during the master review, and the applied account can become the administrator of the device.

2. The owner can select a non-administrator account and a master account on the device management interface, hold down, the menu bar pops up, and click Upgrade to Administrator. Then the account becomes an administrator.

#### Guest

On the device management page, owner can select an administrator account, press longer, and click Upgrade to Administrator. Then the account becomes an administrator.

#### Transfer

The owner can select the administrator account on the device management page, press longer, and click Transfer. Then the owner of the device becomes the administrator. The original owner is a common user and has no access permission.

#### Cloud Access

Visitors, Administrators, and Owners click [Cloud device] to access the device interface. Click [Direct Access] to access the project.



#### 3.Restore Ex-factory Settings

During the use of the device, the HCC-A8 can be restored to the initial state by restoring the Ex-factory Settings. The operations are as follows: Click the RST button of HCC-A8 and hear the dripping sound, indicating that the key is normal.

#### • Restores the network configuration

Restore the network configuration and enter the system Settings page of the password to the initial state.

Step: Hold down the **[**RST**]** button for 5S, the three indicators blink slowly, enter the network configuration recovery mode, release the **[**RST**]** button, and wait for the buzzer to beep. Then the recovery succeeds.

#### Restore Ex-factory Settings

Restore the network configuration and enter the system Settings screen password to the initial state; Restore all system settings to the initial state.

Step 1: Hold on the **[**RST**]** button for 5seconds, the three indicators will blink slowly, enter the factory Settings restoration network configuration mode, and release the **[**RST**]** button;

Step 2: Release the 【RST】 button and press and hold the 【RST】 button again for 3seconds. After the three lights blink quickly, the factory Settings will be restored. Release the 【RST】 button and the buzzer will sound three beeps.

#### 4.HCC-A8 Connection Settings

HCC-A8 communicates with PLC through Ethernet. This section describes briefly how HCC-A8-G communicates with PLC through Ethernet and connects to static Ethernet.

#### 4.1 Precautions and Hardware Installation Procedure

#### Precautions

① The installation direction must be in accordance with the instructions in this manual, in strict accordance with the terminal marked on the directional connection, otherwise it will cause product failure or burn.

② The product and other components at the bottom must be kept enough space to avoid equipment damage caused by poor heat dissipation.

#### Hardware Installation Procedure Guide rail installation: Use standard 35mm guide rail.

- Hardware Cable Connections
   Connects the device to the power supply HCC-A8、PLC Connect to power supply.
- Device connection HCC-A8 and PLC in the same Ethernet;

#### 4.2 Connecting the Network

The factory default IP address is 192.168.1.112.

Step 1: Connect your mobile phone or computer to the hotspot of HCC-A8. After successfully connecting to the hotspot, access HCC-A8 through the local device of HNC Cloud APP and click  $\oplus$  to enter the background setting interface; Or access HCC-A8 through a browser and enter 192.168.1.112/setting to enter the background setting screen.

Step :2: Click [Network Settings] to enter the interface of Ethernet Settings;

Step 3: Select [Static IP] or [DHCP] as required. If the network type is [Static IP], you need to set the following network parameters: Enter the correct IP address, subnet mask, default gateway, and DNS, and click [Save]. After the verification succeeds, the HCC-A8 device can connect to the network through the Ethernet.

14:41 💐				ail \$	r 77
<		192.16	8.15.53		<u>نې</u>
		Netv	vork		Back
Ethernet	Wi	fi	AP	4G	
Routing se	et N	et che	ck		
Switch:		Save			
Туре:	DHCP	Static	IP 恈		
Local IP:	192 . 16	8 . 15	. 53		
SubMask:	255 . 25	5 . 248	• 0		
Gateway:	192 . [16	8 . 10	• 1		
AlteDNS:	211 . 13	8 . 156	. 66		

### • 5.Project operation

#### • Select the device model

Step 1: Open the configuration software, click 【New project】;

Step 2: In the New Project dialog box that is displayed, select the running platform. In this example, the project type is HCC-A8.

Step 3: Select the screen resolution, there are 800\*480 and 1024\*600 options, in this example choose the default 1024\*600, click 【OK】.

k k I - O / O d	> ○ -  ○ ♦ 🔪 A ☆ -   物 & &   ᆋ - ┹ - ☰ - ☴ - ⇇ - ⇉ -   宋体	-
oject browser 🕴 🕴	× Start page ×	
	Start	
	Create a new project	
	Open a project	
	Run a project	
	Open recent projects:	
	New project ?	×
	Project properties Project nume Unnumed project Runtime platform HUI NIO CBOX-7	10X (backup). In de 3. In dev (backup). In dev 10X. In
	IPC = 15/437 A13 Linux)         I           IPC = 22/Q22/R22 (Linux)         I           Screen resolution         Angle(°)           1024x600         0	
	🐷 Open LAN access	
	Please enter the access Show	
	Password allowed to be empty	

#### • HCC-A8 Device

After the new HCC-A8 operation platform project, the equipment bar will automatically generate HCC-A8\_PLC equipment.

HCC-A8\_PLC variable will also be generated in the variable column, which is used to manage the variables of the PLC part of HCC-A8;

	Device properties	Add Batch add	Delete Online	Off   Select All Re	werse Select									
Ē	Register type (All)	• Di	ata type (All)	Group	(All)	Search	The seals of medical and metales	Colloct formunar	Vouisble documenting	Wistows uslas	Nuclear address	0.11	Votichi - Councie -	Offerst musich
	1 70	T(External outpu	Decimal	Negister address	0	1 Bool	Read and write	Normal	variable description	arminde verde	Marinan varae		variable or ouping	OILSEL VERIEDI
	2 11	T(External output	Decimal		ĩ	1 Bool	Read and write	Normal				0		
	3 12	Y(External output	Decimal		2	1 Bool	Read and write	Normal						
	4 1/0	V(Internal data	Decimal		0	1 Integer	Read and write	Normal						
	5 V1	V(Internal data	Decimal		1	1 Integer	Read and write	Normal						
	6 V2	V(Internal data	1 Decimal		2	1 Integer	Read and write	Normal						
	▶ 7 ¥3	V(Internal data	Decimal		3	1 Integer	Read and write	Normal						
	*													

#### Download Project

Step 1: Go to Device Manager, you can choose to use local manager or cloud manager;

Step 2: Click 【Download Project】 to enter the confirm download interface;

Step 3: In the confirmation download interface, you can choose whether to retain power failure retention, whether to retain the operation record on the device, whether to retain the user on the device, whether to retain the formula, and whether to retain the history and alarm record. After setting, click **[OK]**.

Step 4: Wait until the message "Download success!" is displayed. Click **[OK]** to run the project on the device.

Project download confirm	×
Project Name:	t
C:\Users\c <b>enters</b> \Desktop\Runtime\Unnamed project.hwrun	
Equipment IP:	
192.168.15.78	
Device Password:	
Remember password	
Initial Configuration	
🗌 Reservations formula 🛛 🔽 Reserve the operate records	Prompt
□ Reserve the users □ Reserve the power-off protection	c
🗌 Reserve history and alarm records 🛛 🗌 Reserve attachment	Download success!
OK Cancel	1,
	сОК

#### • Operation engineering

After the project is downloaded successfully, wait for HCC-A8 to restart. After the restart, the startup screen will be displayed automatically. Users can access HCC-A8 and operate the project through HNC Cloud APP or browser.

#### 6. Device Manager

Open the configuration design terminal on the computer, click the Device Manager icon in the menu bar to enter the Device Manager; Or click [Program], expand the installation file [HNC Scada], and click [HNC Device Manager] to enter the device Manager. Local management and cloud management can be used to effectively perform operations on HCC-A8.

#### 6.1 Enter the Device Management Page

#### Local manager

Enter the device manager, click 【Local Management】, select the device according to the IP address set by the device, click 【Management】, enter the current device manager, you can operate the current device, as shown below:

Download Project	Upload Project
Update the firmware	Vpdate Time
Get Version	Upload History
Restart Device	Get the PN code
Penetration	File management

#### Cloud Manager

Step 1: Enter the device Manager, click 【Cloud Management】, you can choose mobile phone login and email login. Tip: Device administrators and owners can manage the current device through the cloud manager. Common users do not have device management permissions.

Login	×	R Login	×
Phone Login Email Login Setting		Phone Login Email Login Setting	
Fhone: 86 Fassword:		Email: Password:	
Remember Password		🗌 Remember Password	
Login		Login	

Step 2: Enter the correct account and password, click [Login] to enter the device manager, select the device, click [Management], enter the current device manager, you can operate the current device, as shown below:

Local Manager	Cloud Mans	iger					
User Name: Chen	n.						
Personal device	s v						Communication Timeout
PH code/Device	Nane	Search				Batch	. Vpdate 30000 ms Se
Device Name	Machine Code	evice Typ	Online Fir	mware Remark	Download Project	Penetration	Operate

### 6.2 Execute Device Management

Download Project

Step 1: Click 【Download Project】,enter the confirm download interface;

Step 2: In the confirmation download interface, you can choose whether to retain power failure retention, whether to retain the operation record on the device, whether to retain the user on the device, whether to retain the formula, and whether to retain the history and alarm record. After setting, click [OK].

Step 3: Wait until the message "Download success!" is displayed. Click 【OK】 to run the project on the device.

Project download confirm	×	
Project Name: C:\Users\@Desktop\Runtime\Unnamed project.hwrun	t	
Equipment IP		
192. 168. 15. 78		
Device Password:		
Initial Configuration		
🗌 Reservations formula 🛛 🗹 Reserve the operate records	-	
☐ Reserve the users ☐ Reserve the power-off protection	Prompt	×
🗌 Reserve history and alarm records 👘 🗌 Reserve attachment	- C	
	Dowr	load success!
OK Cane	el	

#### Upload Project

Step 1: Click 【Upload Project】, select the project upload path and project name, and click Save;

Step 2: Enter the project upload confirmation page. If the project Settings allow the upload password, enter the upload password in the 【Project Upload Password】; If the project is not set to allow upload, the project is not allowed to upload by default.

Project Upload Confirm		
Save Location:		
C:\Users\		
Project Upload Password:		
1		
	OK	Cancel

Step 3: Enter the password and click 【OK】, wait for the pop-up "Project upload success!" Click 【OK】 to run the project on the device on the PC.

#### Update Offline

Step 1: Click 【Offline Update】, select the firmware package, click【Open】;

Step 2: Enter the offline update confirmation page, click [Update];

Step 3: Wait until the update is complete. The "Update succeeded!" dialog box is displayed. Click [OK].

L:\frogram Files (x86)	firmware\cboxs\New\Boxs
Select Recover	
west River Version 2 20 5 4	The undeted version: 3 38 5 4
rent firmware version.3.30.5.4	The updated version, 5, 50, 5, 4
evice password:	
evice password:	

#### • Update the device time

Click **(**Update Device time **)** to update the system time of the device. After the successful update, check the system time of the device. The time is consistent with the system time of the PC.

#### • Get the PN code

Click 【Obtain PN code】 to check the PN of the current device.



### • Check the device version

Click 【Detect Device version】 to view the software and hardware version information of the current device.



#### • Upload historical records

Click 【Upload History】 to enter the upload history interface.

	Index	File name	File size	File ident	Path	Sign	
A LL	Reverse	Not					
i.							

#### ①Split history file

Step 1: Click 【Start to split file】 to split the history file of the most recent period of time;

Select	Index	File name	File size	File ident	Path	Sign
	1	20240507140209_20240507140313. kis	16.0KB	effective	FLASH	Not yet Uploade
	2	20240504134310_20240507140209. kis	16.0KB	effective	FLASH	Not yet Uploade
	3	20240204133931_20240204134310. kis	16.0KB	effective	FLASH	Not yet Uploade
All	Revers	e Not				

Step 2: Wait until the split history is successful. In the displayed "Split Success" dialog box, click [OK] to add the current split history file to the history history file list.

#### 0 Upload historical file

Step 1: Select the history file in the history file list (select the file with the suffix.his), enter the storage path of the history file, and click 【Upload Select file】;

Select	Index	File name	File size	File ident	Path	Sign
	1	20240507151630_20240507151634. hi s	16.0KB	effective	FLASH	Not yet Uploade
	2	db (20240507151630-20240507151634). history	40.0KB	effective	FLASH	Not yet Uploade
<b>~</b>	3	20240507151628_20240507151630. his	16.0KB	effective	FLASH	Not yet Uploade
	4	db (20240507151628-20240507151630). history	40.0KB	effective	FLASH	Not yet Uploade
	5	20240507151503_20240507151628. his	28. OKB	effective	FLASH	Not yet Uploade
	6	db (20240507151503-20240507151628). history	48. OKB	effective	FLASH	Not yet Uploade
	7	20240507151501_20240507151503. his	16.0KB	effective	FLASH	Not yet Uploade
	8	db (20240507151501-20240507151503). history	40. OKB	effective	FLASH	Not yet Uploade
	9	20240507151457_20240507151501. his	28. OKB	ffective	FLASH	Not yet Uploade
	10	db(20240507151457-20240507151501).history	40.0KB	effective	FLASH	Not yet Uploade
	11	20240507151407_20240507151457. his	28.0KB	effective	FLASH	Not yet Uploade
	12	db (20240507151406-20240507151457). history	40. OKB	effective	FLASH	Not yet Uploade
	13	20240507151405_20240507151407. his	16.0KB	effective	FLASH	Not yet Uploade
O	14	db(20240507151404-20240507151406).history	40. OKB	effective	FLASH	Not yet Uploade
All eservatior \Users\	Reverse path	e Not				Browse Ope

Step 2: Wait until the history file is uploaded successfully, the "History upload Success" prompt box is displayed, click **[**OK**]**, after the upload is successful, the current history file is marked as "uploaded".

Select	Index	File name	File size	File ident	Path	Sign
	1	20240507151630_20240507151634. hi s	16.0KB	effective	FLASH	Not yet Uploade
	2	db(20240507151630-20240507151634).history	40. OKB	effective	FLASH	Not yet Uploade
	3	20240507151628_20240507151630. hi s	16.0KB	effective	FLASH	Already uploade
	4	db (20240507151628-202405071510		effective	FLASH	Not wet Upload
	5	20240507151503_20240507151628 Prompt	×	effective	FLASH	Not yet Upload
	6	db (20240507151503-20240507151)		effective	FLASH	No, yet Upload
	7	20240507151501_20240507151503		effective	FLASH	Not yet Upload
	8	db (20240507151501-20240507151)	load success!	effective	FLASH	Not yet Upload
	9	20240507151457_20240507151501		effective	FLASH	fot yet Upload
	10	db (20240507151457–20240507151!		effective	FLASH	Not yet Upload
	11	20240507151407_20240507151457		effective	FLASH	Not yet Upload
	12	db (20240507151406-20240507151-		effective	FLASH	Not yet Upload
	13	20240507151405_20240507151407	ОК	effective	FLASH	Not yet Upload
	14	db (20240507151404-20240507151-		effective	FLASH	Not yet Upload
All	Reverse	e Not				
	1			<b>\</b>		

#### **3Delete historical file**

Step 1: Select the history file in the history file list and click 【Delete selected file】;

Step 2: Click 【Yes】 to confirm the deletion of the file.

Step 3: Wait until the historical file is successfully deleted, and the message "Deleted successfully!" is displayed. Prompt box, click **(OK)**.



#### Restart Device

Step 1: Click 【Restart device】, and click 【OK】 in the pop-up confirmation dialog box.

Step 2: Wait for the device to restart. After the restart succeeds, the "Device restart succeeded" dialog box is displayed. Click [OK].



#### 2. Background Settings

Access HCC-A8 through the local device of HNC Cloud APP, click the "Background Settings" button at the lower left corner of the details page to enter the background Settings interface; Alternatively, access HCC-A8 through a browser and enter device IP/setting to enter the background setting screen.

Terminal Name:20240507			⊜ English
l	Project	Network	
	Settings	Information	
	Cloud	Back	
	LAN: 192	2. 168. 15. 78 (using)	

#### 7.1 Project Settings

Enter the background Settings, click 【Project Settings】, you can see the project name, author, copyright and project size downloaded to HCC-A8 in the project Settings.



#### 7.2 Network Settings

#### • Ethernet connection

Go to the HCC-A8 background Settings screen, tap "Network Settings" to enter the Ethernet Settings screen, and turn on "Network switch". The network type includes DHCP and Static IP.

#### ①Dynamic state IP

Network type selection [DHCP] , Click [Save] , The device automatically obtains it IP  $_{\circ}$ 

②Static IP

Network type selection 【Static IP】, Enter the correct IP address、Subnet mask code、Default gateway and DNS, Click [Save], After verification, HCC-A8 Devices can be connected to the network via Ethernet.

Network	Back
Ethernet         Wifi         AP         4G         Routing set         Net check	
Switch: Save	
Type: DHCP Static IP 🐲	
Local IP: 192. 168. 15. 78	
SubMask: 255 . 248 . 0	
Gateway: 192 . 168 . 10 . 1	
AlteDNS: 211, 138, 156, 66	

#### • WIFI Settings

Click [WIFI Settings], The WIFI Settings screen is displayed, Supports WIFI connection, meanwhile, The HCC-A8 built-in network card can also be shared WIFI Hotspot for other users.

The WIFI Settings screen is displayed, Turn on WIFI, Select the target WIFI account, Enter the correct WIFI password, After verification, you can connect to the WIFI network.

		Network	Back
Ethernet	ifi AP 4G Routing set Net check		
Switch:	IP:192.168.1.146		
0	SCIMITEST	ຈ 🛈	
CHOOSE & NETWORE.			
	SCHMITEST1	(î*	
	TP-LINK_DA7C	<i>©</i>	
	HMI-703144-39037	6	
	HMI-703284-88021	(î*	
	YSX2022101718	<u></u>	
	HMI-704234-88038	Ŷ	

#### Personal Hotspot

Turn on the personal hotspot switch, Set the hotspot name and password, You can share your WIFI hotspot with other users.

		Network	Back
Ethernet Wifi AP 4G	Routing set Net check		
AP: IP: 10. 5. 5. 1			_
Wifi Name:	B0X-709162-74038		
Password:			
		Save	,

Setting the Hotspot Name, Click "Hotspot Name", the hotspot name input box is displayed.

					Ne	etwo	rk					Back
Ethernet Wifi AP 4G Routing s	et N	et che	ck									
AP: 1P: 10. 5. 5. 1												
Wifi Name: BOX-709	9162			The	hot na	me leng	th (6~	18)				
Password:	0							BOX	70916	2-74038	0	
	%	!	-	+	=	_	\$	#	*	,	•	
	0	1	2	3	4	5	6	7	8	9	$\langle X \rangle$	
	q	w	е	r	t	у	u	i	0	р		
	а	s	d	f	g	h	j	k		•	_	
		z	x	с	۷	b	n	m	_	_	\$	

Set a password, Click on "Password", The password input box is displayed, Click on the top left corner of the input box You can switch between plain-text and ciphertext passwords. Enter password, Click [Enter], Finally click [Save], You can save the added password information.

Network								Back						
Ethernet Wifi AP 4G Routing set Net check														
AP: 1P:10.5.5.1														
Wifi Name:	BOX-70916		The 1	ength (	of the	passwo	rd must	be 8~	20 or n	o pass	ord	•	×	
Password:												0		
		%	!	-	+	=	_	\$	#	*	,	•		
		0	1	2	3	4	5	6	7	8	9	$\mathbf{X}$		
		q	w	е	r	t	у	u	i	0	р			
		а	s	d	f	g	h	j	k		-	1		
			z	x	с	v	b	n	m	L		<b>∆</b> <sup>&amp;</sup>		

HCC-A8 The Ex-factory default WIFI password is empty.

Note: The hotspot name contains 6 to 18 characters, The password can be empty or contains 8 to 20 characters. Out of range, Click Enter, Enter the name of hotspot, The password will not be displayed in the appropriate location, and pop-up prompt.

#### • 4G Network function

#### Without 4G

The HCC-A8 background Settings screen is displayed, Click [Network Settings], The Ethernet Settings page is displayed, Open [4G Switch], prompt "Without 4G module".

#### With 4G

4G function switch is off by default.

Enter the HCC-A8 background Settings interface, click [Network Setting], The Ethernet Settings page is displayed, Turn on [4G switch], The 4G function can be used normally.

1、Turn on WIFI hotspot, Disable 4G wireless routing, Mobile phone connects hotspot. The Cloud App can access to the local device normally, cannot access cloud devices, and cannot access to the Internet.

2, Turn on WIFI hotspot, Enable 4G wireless routing, Mobile phone connects hotspot. The Cloud App can normally use LAN devices and cloud devices, can access the Internet.

#### Route Configuration

Route configuration includes: Route mode is not enabled.、"Wireless access point mode"、"4G routing mode"、"Relay mode"、 "Client mode"、 "4G client mode", The default is "Route Mode is not enabled"...

	Network		Back
Ethernet Wi	fi AP 4G Routing set Net check		
	Routing set	×	
Routing mode:	Device internet access: LAN VIFI 4G		
Device interne	Device internet supply: LAN hotSpot		
Device interne		Save Close	

The comparison between routing modes and network types is as follows:

	The routing mode is not enabled (Routing switch)	Wireless access point mode	4G Routing mode	Relay mode	Client mode	4G Client mode
Ethernet	LAN/External network	LAN/External network	LAN	LAN	No support	No support
WIFI	LAN/External network	No support	No support	Connect to Internet	Connect to Internet	No support
Personal Hotspot	LAN	LAN/External network	LAN/External network	LAN/External network	No support	No support
4G	Outer net	No support	External network	No support	No support	External network
Network provision	Ethernet/WIFI/4G	Ethernet	4G	WIFI	WIFI	4G

(1) The routing mode is not enabled

The HCC-A8 background Settings screen is displayed, Click [Network Settings], The route configuration page is displayed, Click "Settings", Click "Route Mode not enabled", The message "This mode will only close routes is displayed, do not perform other operations, confirm to disable the routing mode", Click "OK", That is, the routing mode is disabled.

"Route Not Enabled" mode ,only close the routing function of the current Ethernet, WIFI, and 4G. In this mode, the hotspot only supports the local area network (LAN) and does not support the Internet. The function settings of Ethernet, WIIF, and 4G remain unchanged.

Network

Back



#### (2) Wireless access point mode

Enter the HCC-A8 background Settings screen, click "Network Settings", enter the route configuration screen, click "Settings", click "Wireless Access point mode", the pop-up message "This mode will turn off 4G and WIFI, are you sure to switch to this mode?", Click "OK", that is, set to wireless access point mode.

In Wireless Access Point mode, only the wired network provides the network. Other devices can connect to the personal hotspot of the device to access the LAN and the external network.

	Network		Back
Ethernet Wi	fi AP 4G Routing set Net check		
	Routing set	×	
Routing mode:	Device internet access: LAN WIFI 46		
Device interne	Device internet supply: LAN hotSpot		
Device interne		Save Close	

#### (3) 4G Routing mode

Enter the HCC-A8 background setting interface, click 【Network Settings】, enter the route configuration interface, click "Settings", click "4G routing mode", the pop-up message "This mode will turn off WIFI, are you sure to switch to this mode?", Click "OK", that is, set to 4G routing mode.In 4G routing mode, only 4G provides the network for the device. Other devices can connect to the personal hotspot of the device to access the LAN and the Internet. The wired network in this mode supports only LAN networks.

		Network		Back
Ethernet Wi	fi AP 4G Routing set Net check			
		Routing set	×	
Routing mode:	Device internet access: LAN VIFI 43			
Device interne	Device internet supply: LAN hotSpot			
Device interne			Save Close	

#### (4) Repeater mode

Enter the HCC-A8 background settings screen, click [Network Settings], enter the route configuration screen, click "Settings", click "trunk mode", the pop-up message "This mode will turn off 4G, are you sure to switch to this mode?" Click "OK", that is, set the trunk mode.

In "relay" mode, only the WIFI connected hotspot provides the network. First, connect to a hotspot that can access the Internet, and then provide a network for other devices through the personal hotspot of the device, supporting the local area network and the external network. The wired network in this mode supports only LAN networks.

					Network			Back
Ethernet Wit	fi AP 4G	Routing s	set Net	check	Pouting oot		~	
					Routing set		×	
Routing mode:	Device internet access:	LAN	VIFI	4G				
	Device internet supply:	LAN	hotSpot					
Device interne								
Device interne						Save	Close	

#### (5) Client mode

Enter the HCC-A8 background Settings screen, click 【Network Settings】, enter the route configuration screen, click "Settings", click "Client mode", the pop-up message "This mode needs to turn off the personal hotspot and 4G, are you sure to switch to this mode?", Click "OK", that is, set to the client mode.

In the "client" mode, the network is provided by the WIFI connected hotspot, and the HCC-A8 is correspond to a router, and

the HCC-A8 connects to the wired network, and then connects to the device through the cable to provide the network for the device. The personal hotspot function is not supported in this mode.

		Network		Back
Ethernet Wi	i AP 4G Routing set Net check	Routing set	×	
Routing mode:	Device internet supply: LAN VIFI 4G			
Device interne				
Device interne			Save Close	

#### (6) 4G Client Mode

Enter the HCC-A8 background settings screen, click "Network Settings", enter the route configuration screen, click "Settings", click "4G client mode", the pop-up message "This mode needs to turn off the personal hotspot and WIFI, are you sure to switch to this mode?", Click "OK", that is, set to 4G client mode.

In "4G client" mode, 4G provides the network, and HCC-A8 is correspond to a router. HCC-A8 connects to the wired network, and then connects to the device through the wired network to provide the network for the device. The personal hotspot function is not supported in this mode.

	Network	Back
Ethernet	Vifi AP 4G Routing set Net check	
	kouting set X	
Routing mode:	Device internet access: LAN VIFI 46	
	Device internet supply: LAN hotSpot	
Device interne	e	
Device interne	e Save Close	
Networ	rk diagnosis	
①Externa	al network access	
	$(\dots)$	
To use net	twork diagnostics, click on the URL $\searrow$ , Select a web address to access. If a message is returned, th	en means
device is o	connected to the network.	
	Network	Back
Ethernet W	Vifi AP 4G Routing set Net check	
	Net check	
	Web Site: www.baidu.com ping Net AddChoose	
Routing mode:		
	PING www.baidu.com (36.155.132.3): 56 data bytes	
	64 bytes from 36.155.132.3; seq=0 t1=52 time=24.930 ms 64 bytes from 36.155.132.3; seq=1 t1=52 time=25.202 ms 64 bytes from 36.155.132.3; seq=2 t1=52 time=24.696 ms	
	64 bytes from 36.155.132.3: seq=3 tt1=52 time=25.104 ms	
	4 packets transmitted, 4 packets received, 0% packet loss cound-trip min/avg/max = 24.666/24.982/25.202 mc	
	Close	

2LAN access

Use network diagnosis, click on the website, enter the corresponding IP address of the device you want to visit, if the information is returned, then the access is successful.

	Network	Back
Ethernet Wi	fi       AP       4G       Routing set       Net check         Net check         Web Site:       192.168.15.179       image: ping         PING 192.168.15.179       image: ping         of bytes from 192.168.15.179       image: ping         of bytes from 192.168.15.179       image: ping	

#### 7.3 Local setup

#### Local setup

1 Machine name setting

Enter the HCC-A8 background setting interface, click [local Settings], you can see [terminal name], click [Settings], enter a new terminal name, and press "Enter".

					Se	ttin	igs							
Settings Security Others COMM Param														
							_				×			
Terminal Name: 20240507 Set	0			Enter	the Ter	rminal	name (	1~10)	20	0240507	0			
Terminal code: Set Beep:	%	!	-	+	=		\$	#	*					
Reduce the brightness: 5 min(The brightness	0	1	2	3	4	5	6	7	8	9	×			
Auto Time:	q	w	е	r	t	у	u	i	0	р				
	а	s	d	f	g	h	j	k						
Time: 2024-05-07 15:59:20 Auto Time Set		z	x	с	v	b	n	m		_ 4	∆&			

#### ②Terminal setup

Enter the HCC-A8 background setting interface, click [local Settings], you can see [terminal number], click [Settings], enter the new terminal number, press "Enter".

					Se	ttin	gs						Back
Settings Security Others COMM Param													
Terminal Name: 20240507 Set			The ler	igth of	the te	erminal	code .	less th	an 10		 ] ⊚ [		
Terminal code: Set Beep:	%	!		+	=	_	\$	#	*	,			
Reduce the brightness: 5 min(The brightness	0	1	2	3	4	5	6	7	8	9	$\langle X \rangle$		
Auto Time:	q	w	е	ſ	t	у	u	1	0	р			
Time: 2024-0E-07 1E-E0-E6 Auto Time Sot	а	s	d	f	g	h	j	k		+	_		
Time. 2024 05 01 15.59:50 Auto Time Set		z	x	с	v	b	n	m		_	<b>∆</b> <sup>&amp;</sup>		

#### ③Buzzer Settings

Enter the background setting interface of HCC-A8, click 【Local Settings】, and open the function of 【buzzer switch】 in the interface of 【local Settings】. After successful setting, when the user clicks the HCC-A8 button, the buzzer will make a response sound.

	Settings	Back
Settings Security Others COMM Param		
Terminal Name: 20240507 Set		
Terminal code: Set Beep:		
Reduce the brightness: 5 min(The brightness does not decrease at 0)		
Auto Time:		
Time: 2024-05-07 16:00:23 Auto Time Set		

#### 4 Network timing

Enter the HCC-A8 background setting interface, click "Local Settings", open the "network timing" function in the "local settings" interface, click "automatic timing settings" to enter the network automatic timing setting interface, and click "Save" after completing the setting.

	Settings		Back
Settings S	ecurity Others COMM Param		_
	Auto Time Set		
	Time Zone: UTC+08:00China		
Terminal Nam	NTP Server Addr: China		
	NTP Port: 123		
Terminal cod	NTP Interval: 60 min	3	
Reduce the b		Close Sav	'e
1			
Auto Time:	2 5-07 16:01:40 Auto Time Set		

#### • Security Settings

#### 1 Download Project Password

Enter the HCC-A8 background setting interface, click "Local Settings", open the "Download project password" function in the "Security Settings" interface, and set the HCC-A8 download password. After the successful setting, users need to verify the password to download the project and update the firmware, otherwise they cannot perform related operations.

					Se	ttir	ıgs					
Settings Security Others COMM Param												
	_										6	
Demote al Device & Devenuel .			Er	nter th	e down	load pa	assword	(6~20)			0	
Download Project Password:	%	!	-	+	=		\$	#	*	,		
Enter the set interface password: 🔵	0	1	2	3	4	5	6	7	8	9	$\propto$	
LAN Access: Set Password Empty password	q	w	е	r	t	у	u	i	0	p		
	а	s	d	f	g	h	j	k		•	_	
		z	x	с	v	b	n	m	_	_	\$	

#### 2 Access background password

Enter the HCC-A8 background setting interface, click "Local Settings", open the "Enter Background Password" function in the "Security Settings" interface, and set the background password. After the setting is successful, the user needs to verify the password when entering the background setting.

					Se	ttir	igs				
Settings Security Others COMM Param											
			E	nter tl	ne sett	ing pa	ssword	(6~20)			
Download Project Password: 🕥			_	_	_	_	_	_	_	_	0
	%	!	-	+	=	_	\$	#	*	,	•
Enter the set interface password:	0	1	2	3	4	5	6	7	8	9	$\langle \times \rangle$
LAN Access: Set Password Empty password	q	w	е	r	t	у	u	i	0	р	
	а	s	d	f	g	h	j	k		•	
		z	x	с	v	b	n	m		_	\$

#### **3LAN** access

Enter the HCC-A8 background setting interface, click 【Local Settings】, click 【Set Password】 under LAN access in the "Security Settings" interface, and set the LAN access password. After the successful setting, users need to enter the password for verification when accessing the mobile cloud App, LAN PC and connecting network engineering functions.

					Se	ttin	ngs					Bao
Settings Security Others COMM Param												
				Enter t	he pro	iect vi	sit pa	ssword	_	_	- ×	
Download Project Password:	0										۲	
	%	!	-	+	=		\$	#	*	,	·	
Enter the set interface password:	0	1	2	3	4	5	6	7	8	9	$\propto$	
LAN Access: Set Password Empty password	q	w	е	r	t	у	u	i	0	р		
	а	s	d	f	g	h	j	k		-	_	
		z	x	с	v	b	n	m		_	\$	

If you want to clear the LAN access password, go to the background Settings screen, click 【Local Settings】, click 【Clear password】 under the LAN access screen in the Security Settings screen, the "Setting succeeded, you are advised to set a password to improve security" message will be displayed.

Settings	Back
Settings Security Others COMM Param	
Download Project Password:	
Enter the set interface password:	
LAN Access: Set Password Empty password improve security	

#### Other Settings

①Frequency of device cloud online detection

Enter the HCC-A8 background setting interface, click [Local Settings], in the [Other Settings] setting interface you can see [Device cloud online detection frequency], click [Settings], you can set the frequency of cloud online detection: automatic selection (120S once), 10min/ once, 20min/ once, 30min/once.

Settings	Back
Settings Security Others COMM Param	
Cloud On-line Detection: Auto Set	
Now channel server:Qingdao, China Set	
MqttAgency:	

2 Cloud server selection

Enter the background setting interface of HCC-A8, click [Local Settings], you can see [current cloud server] in the setting interface of [Other Settings], click [Settings], you can choose your own cloud server, the servers include: Qingdao, China, Silicon Valley, Frankfurt, Germany, Shenzhen, China, India, Singapore.

Settings	Back
Settings       Security       Others       COMM Param         Channel server select       Qingdao, China       Silicon Valley       Frankfurt, Germany       Shenzhen, China       Singapore, Singapore	
Cloud On-lin Auto Close	)
Now channel server:Qingdao, China Set	

MqttAgency:

③MQTT Agency [Local Settings], click [MQTT proxy] function under LAN access in the [Other Settings] interface, after enabling, the terminal device can be used as a small MQTT server, refer to the MQTT user manual for specific usage.



Enter the HCC-A8 background setting interface, click [Local Settings], in the [Communication parameters] interface you can set RS485 COM parameters and PLC part of the communication address.

	Settings	Back
Settings Security Others COMM Param		
A8 Address:1 Set		
COM Parameters: 57600, N, 8, 2 RTU Set		

#### 7.4 System information

In the system information window, you can view the parameters of the current device.

Information							
Machine Code:7091629002810174038 🗐	LAN1 IP: 192. 168. 15. 78						
OS Version:v1.1.2 (01)	ETH1 MAC:C6:0C:08:08:04:D1						
HW Version:IOT-CPU-V1.3	PLC State:RUN						
APP Version: 3. 38. 3. 4							
PLC Version: V1.0(22-8-18 13:00)							
Reboot PLC Diagnostics							

#### • Restart the device

The user enters the background setting screen of HCC-A8, clicks [System Info], and selects [Restart device] to restart the HCC-A8 device. You can also restart the device through the Device Manager. For details, see the instructions in "Device Manager - Restarting the Device".

	Information	Back
Machine Code:7091629002810174038 🗐 OS Version:vl.1.2 (01) HW Version:107-CPU-V1.3	LAN1 IP:192.168.15.78 ETH1 MAC:C6:0C:08:08:04:D1 PLC State:RUN	
APP Version: 3. 38. 3. 4 PLC Version: V1. 0 (22-8-18 13:00) Reboot PLC Diagnostics		

#### • PLC diagnosis

Users enter the HCC-A8 background setting interface, click 【System Info】, select 【PLC Diagnosis】, you can view the PLC part of the diagnosis information.

		Int	formation				Back
Machine Code:7097 OS Version:vl.1. HW Version:IOT-C APP Version:3.38 PLC Version:Vl.0 Reboot	PLC Diagonostics Name: PLC Address: 1 P address: 192.168.15.78 Subnet maak: 255.255.248.0 Gateway IP address: 192.108.10.1 MAC address: 1f ff ff ff ff Port(Bodbus TCP Client): 0 PN: 6060151129-011000000 PLC Switch postion: Run PLC Status: Run Hardware status: Ruch Battery voltage: Normall SY140: SY140-0(Mormal) Program size: 0 COMI Parameters: 57600, N, 8.2 RTU COMI vimenut: 200		ANI TD-100 120 15 70	Сору	Download	Close	
	and O atting and						

## 7.5 Cloud Settings Binding Device

Enter the HCC-A8 background Settings interface, click [cloud Settings], open the cloud switch, the two-dimensional code and machine code pop up.

Cloud	返回
● APP Scan ○ WeChat Scan	
7011929002870102010	

Log in to the cloud APP on your mobile phone, enter the "Device" interface, click the button in the upper left corner of the main interface, and scan the QR code to add the device. A confirmation dialog box is displayed on the device. Click [OK], the device is successfully added, and the user can remotely access the device.

#### Remote control

Mobile phones enter the APP, enter the device; Click [Direct access] to access the device, if the current project allows remote operation, the user can remotely control the device through the mobile.



#### 7.6 Setting Multiple Languages

7.7 On the HCC-A8 background Settings screen, tap the Language Settings button in the upper right corner of the screen to change the system language. The device supports simplified Chinese and English.



#### 7.8 Exit background Settings

In the background setting interface of HCC-A8, click [back] to exit the background setting and enter the project operation interface.

### 四. Installation of HCC-A8

Please install HCC-A8 in a closed distribution box, and keep a certain space between the sides and the inner wall of the box to ensure good heat dissipation of HCC-A8.

HCC-A8 Installation methods are divided into: rail installation method and screw installation method.

Guide rail installation method: Use standard 35mm guide rail.

#### HCC-A8 series expansion module connection method

The connection between the extension module and the host or between the extension module and the extension module is realized by parallel port.

**Connection method:** The parallel interface on the lower right side of the previous module (host or extension module) is inserted into the parallel interface on the lower left side of the next module with two small card hooks, and the parallel interface on the right side of this module is used as the next expansion module, so that all expansion modules are connected in order.

Thanks for choosing HNC Products, If you have any questions about our products or services, please let us know! Website: www.hncelectric.com