

User Manual ---Apply to RT600 4G/3G RTU

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Product Introduction

1.1 **Product Overview**

RT600 offers two serial ports and I/O ports, enabling it to connect to a variety of fields devices. With PPP, TCP/IP protocol, it could convert user serial port data to mobile 4G/3G/2G IP network data and transmit the data to customer's data master via transparent TCP/UDP protocol. DI ports support various of digital signal such as door sensor and smoke detector. AI ports support 4~20mA/0~5V signal such as temperature sensor and humidity sensor. Especially, WL-RT600 is programmable for users to customize DI/AI ports and Modbus properties according to various application requirements.

1.2 Typical Application Diagram

RT600 4G/3G RTU widely used in Cold Chain Logisitcs, Oil&Gas, Power, Environment Protection, Water Conservancy and Lighting control monitoring and other industries fields.

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Figure 1-1 Network Topology

1.3 Features

- Integrated 4G/3G/2G cellular communication
- Support programmable function
- Standard PPP, TCP/UDP/IP and Modbus-RTU protocol
- Industrial pluggable terminal block
- RS232 port for Configuration
- RS485 port for data transmission
- 2 Analog inputs and 2 Digital inputs
- Memory data storage optional
- Built-in GPS optional

- Built-in RTC, support real-time clock
- Optimized EMC design
- Support APN and VPDN private network
- Support short message service (SMS)
- Support transparent data transmission
- Support data service center with dynamic IP address
- Support LED status indication
- Wide range voltage input
- External power on/off control



Hardware Installation

This chapter is mainly for installation introduction, there would be some difference between the scheme and real object. But the difference doesn't have any influence to products performance.

2.1 LED Status

LED indicator Status

silk-screen	color	status	Indication
	Red	Weak Signal	CSQ<21
	Green	Good Signal	CSQ≥21
		Fast Blinking	Self-checking
NET		Light on 1s,Light off 2s	Standby
		Light on 2s, Light off 1s	Online
PWR	Green	Light on	RTU running
GPS	Green	Light on	GPS enabled





2.2 **Dimension**



2.3 How to Install

2.3.1 SIM/UIM card installation

Open SIM shelter by screw-driver, then insert SIM/UIM card.





CAUTION

Before connecting, please disconnect any power resource of RTU

2.3.2 Interfaces



Pin	Interface	Description
1	V+	Power Vin+, Anti reverse
2	GND	Power GND
3	RS485-B	RS485 B, 57600bps as default
4	RS485-A	RS485 A
5	GND	GND for RS232 communication
6	RX	RS232 RX, 57600bps as default
7	ТХ	RS232 TX
8	DI1+	Digital Input, Dry Contact
9	DI2+	Digital Input, Dry Contact
10	GND	Short to DI
11	AI1+	Analog Inputs, 4~20mA or 0~+5V, 12bits Resolution
12	AI2+	Analog Inputs, 4~20mA or 0~+5V, 12bits Resolution

2.3.4 Power Supply

In order to get high reliability, adapt wide voltage input: +7.5V \sim +32VDC, support hot plug and complex application environment.

2.3.5 Review

After insert the Micro SIM/UIM card, connect serial cable, necessary antenna, then connect power cable.

CAUTION

Please connect the antenna before connect the power cable, otherwise because of impedance mismatching, the signal maybe poor.

Notice:

Step 1 Check antenna connection.

3



Step 2 Check Micro SIM/UIM card, configure SIM/UIM card is available.

Step 3 Power on RTU





3.1 **RT600 Config Tool Serial Port Settings**

Run RTU Config Tool, click Config button to setup serial port parameters as below.

0		RT600 Config Tool v1.0.3	- 🗆 🗙
RT600 Confi	g Tool		
at com	COM Optional Port COM1 •	Function Disabled	
🖶 Cellular	Parameters	Connection Setup	
🏦 Serial APP.	Baud Rate 57600	Port COM3 💌	ity Bit none 💌
😲 RTU	Modbus Slave Address	Baud Rate 57600	
> Location	Slave Address 1024	Parity Bit none	
🖳 Manage		Switch cmd ++++++	
🕵 Others			
🕵 Upgrade		V DK X Cancel	1
📰 Product Info	S Config Connect	🛛 Disconnect 🛛 🕒 Import 🖉 Export 🖉 Fact	ory Default
V1.0.3	COM3,57600-1, none-+++++	Shenzhen Wlink Technology Co.,Limited	www.wlink-tech.com

Baud Rate: 57600bps Data Bit: 8bit Parity: None Stop Bit: 1bit





Click Connect button, RTU will be connected to the tool and enter configuration mode. If the connection is successful, it will display Connected RTU dialog box as below.

0	RT600 Config Tool v1.0.3	- 🗆 🗙
RT600 Confi	ig Tool	
	COM Orthogol	
緍 COM		
	Port COM1 V Function Disabled V	
🖶 Cellular		
A control ADD	Parameters	
gig Serial APP.	Baud Rate 57600 💌 Data Bit 8 💌 Stop Bit 1 💌 Parity Bit none 💌	
🕄 RTU		
-	Modbus Slave Address	
> Location	Slave Address 1024	_
u Manage		
Others		
<u> </u>		
🔁 Upgrade		
Product Info	🚯 Config 🕘 Connect 🔘 Disconnect 🕒 Import 🖻 Export 🖸 Factory Default	Save
	The serial port has been opened.	
	Connecting RT600	
	Connected RT600	
V1.0.3	COM3,57600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com	

【Config】 Tool Serial port configuration.

【Connect】Connect RTU.

[Disconnect] Close serial port to leave configuration mode.

[Import] Import configuration file into Config tool.

[Export **]** Export current settings to file. It's convenient for butch setup.

【Default】 Setup RTU to default settings.

【Read】Inquiry current RTU setting.

[Save] Save settings to RTU.



3.2 **RTU Configuration**

3.2.1 RTU COM Settings

0	RT600 Config Tool v1.0.3 – 🗆 🗙
RT600 Confi	g Tool
a COM	COM Optional Port COM1 Function Disabled
🖶 Cellular	Baud Rate 57600 Data Bit 8 Stop Bit 1 Parity Bit none
😨 RTU	Modbus Slave Address
> Location	Slave Address 1024
🕒 Manage	
🔁 Others	
🕵 Upgrade	
Product Info	Save
V1.0.3	COM3,57600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com

RTU Serial port settings instruction.

Parameters	Description	Instruction	Default
COM Options	RT600 supports one RS232 and one RS485. RS232 for Config and Debug as default, RS485 for data communication.	COM1 for RS232 COM2 for RS485	
Function Options	Supports data transfer and modus modes.		
Baud rate	Serial port properties	300/600/1200/2400/4800/9600/19200/384 00/57600/115200 optional. RS232 Port for 57600bps as default. RS485 Port for 57600bps as default.	
Data bits		8	8
Stop bits		1/2	1
Parity		NONE/ODD/EVEN	NONE



RT600 User Manual

Parameters	Description	Instruction	Default
Modbus Slave Address	The address for Modbus slave address which is connected to RT600		

3.2.2 Cellular Settings

0	RT600 Config Tool v1.0.3	×
RT600 Confi	ig Tool	
f COM	Cellular Setting APN cmnet	
e Cellular	Username Password	
😲 RTU	PING IP Address 0.0.0.0	
> Location	Domain Name	
Cothers	PIN	
🗘 Upgrade	PIN Code	
Product Info	St Config Connect Disconnect En Import Export Factory Default	∜ Save
V1.0.3	COM3,57600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com	

RTU Network settings instruction

Parameters	Description	Instruction	Default
APN	SIM information for dial up	1~63bytes	cmnet
User name		0~63bytes	NULL
Password		0~63bytes	NULL
Ping IP address	Check destination IP address		0.0.0.0
Ping Domain Name	Check destination domain name. If IP 0.0.0.0 and domain name is null, Ping is disable.	0~63byts	NULL
Interval	PING check interval when idle.	0~255mins 0 indicates PING is disable status.	0
PIN Code	SIM card PIN Lock	If SIM card is configured PIN Code, it need to configure PIN code so in RTU so that RTU can identify SIM card.	



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Parameters	Description	Instruction	Default
		It need to check PIN code correctly, if not, the SIM card will be damaged if configure error PIN code.	

3.2.3 Serial App. Settings

0	RT600 Config Tool v1.0.3 -	
RT600 Confi	ig Tool	
	Run Mode	^
f COM	Serial App. Disabled -	
👝 Cellular	Run Mode Online Mode	
serial APP.	Wakaup Mode 🗆 Serial dat 🗂 SMS 📄 Timing Timing 10 secs	
	Idle Time 10 seconds	
😲 RTU	Reconnection 10 seconds	
> Location	Serial Port Communication	
🕒 Manage	Protocol Transpar 💌	
🕵 Others	MTU 10 byte Data Interval 10 ms	
Ct Upgrade	Connection Setting	_
	Server IP 0.0.0.0 Port 40009 Protocol TCP -	v
Product Info	S Config Connect D Disconnect E Import Export Factory Default	Save
V1.0.3	COM3,57600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com	

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0	RT600 Config Tool v1.0.3	<mark>- × -</mark>
RT600 Conf	Fig Tool	
循 COM	Server IP 0.0.0.0 Port 40009 Protocol TCP Domain	Ŷ
🖶 Cellular	Heartbeat Interval Interval 0 0~65535 secs	
😲 RTU ≽ Location	Custom Device ID Device ID	
🕮 Manage	Custom Heartbeat Package Insert ID into Package ID position 0 0~24 Enabled Custom H	
Upgrade	Custom Heartbeat	-
No 62	St Config Connect Disconnect Export Factory Default	7 Save
V1.0.3	COM3,5/600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com	

RTU Connection settings instruction

Serial APP. is used for the communication between RS485 and data server.

Parameters	Description	Instruction	Default
Serial APP	Disable and enable options	Serial port to IP communication application	disable
Run Mode	ONLINE/WAKEUP	[ONLINE] After powered on, RTU automatically connect and reconnect to data center server to keep online always [WAKEUP] After Powered on, RTU will work at standby mode. Once RTU received wakeup command such as SMS, serial data triggering or counted timing time, RTU will dial up and connect to data center server. After idle time, RTU will re-enter wake up mode.	ONLINE
Idle Time	RTU will enter standby status after idle time.	Idle time is only suitable for wakup mode. 0~65535s	10s
Reconnect	RTU reconnect to data center server after interval time when connection is failed.	0, 5~65535s 0 for Immediate reconnection	10s
Serial Port Communication	At present, only Transparent Mode available.		

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RT600 User Manua	I
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Parameters	Description	Instruction	Default
MTU	The max transmission unit. Once data package length exceed to MTU, DTU will split data package as MTU.	10~1024 bytes	10 bytes
Data Interval	The Data Interval is the waiting time interval for transmitting the data package that is less the MTU. If the last package equals to the MTU, DTU will transmit it immediately.	10~1000 ms	10 ms
Server IP	Data server center IP address(static IP address)		
Port		0~65535	40009
Protocol	UDP/TCP optional		UDP
Domain	Used for dynamic IP address in HQ.	Only setup server IP as 0.0.0.0, it's available.	N/A
Heartbeat Interval	0~65535s	RTU will automatically send heartbeat to server in order to keep connection. 0 means no heartbeat.	0
Custom Device ID	Identify DTU in data server center	4byte length	0
ID Position	ID insert data package in order to identify which RTU sent data.	0~24bytes	1
Custom Heartbeat Package	RTU log in data center server and keep connection.	0~24bytes	NULL
Custom ACK Package	RTU receive ACK after sent heartbeat. If no ACK 3times in succession, DTU will reconnect to data center server.	0~24bytes	NULL

3.2.4 RTU Settings

RTU. is used for data collection from AI and DI interface.

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RT600	User	Manual
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0	RT600 Config Tool v1.0.3 🛛 🗕 🗆 🔜	×
RT600 Confi	g Tool	
	Run Mode	^
稽 COM	RTU Function Fnabled	
a Cellular	Alarm Data 💌	
Serial APP.	Protocol WLINK protocol 🗸	
	Local Modbus address 10 (HEX format)	
😍 RTU		
> Location	Report interval 10 secs	
2 Location	Reconnection 10 secs	
🕒 Manage	☐ Auto-offline	
🔁 Others	Connection Setting	
Ct Upgrade	Sever IP 0.0.0.0 Port 40009 Protocol TCP-CLIENT -	
· · · · · · · · ·	Domain	¥
📰 Product Info	🐒 Config 🕘 Connect 💿 Disconnect 🕞 Import 🏠 Export 🖸 Factory Default 🕴 Read 🖞 Save	1
V1.0.3	COM2 57600 1 more to the tech com	
1 11010	VATIVES FOUNDED VIEW TECHNOLOGY CO. LITIUED VIEW TECHNOLOGY CO. LITIUED	
	COMS,57000-1, none-++++++ Shenzhen wink recinology Co.,Linited www.wink-recit.com	
0	RT600 Config Tool v1.0.3 – 🗆	×
CRT600 Confi	RT600 Config Tool v1.0.3 - C	×
CRT600 Confi	RT600 Config Tool v1.0.3 - Con	×
RT600 Confi हई COM	RT600 Config Tool v1.0.3 - © Tool Image: SMS alarm setting SMS includes device ID disable • SMS includes signal value diablec •	×
RT600 Confi श्च COM न्द Cellular	g Tool SMS alarm setting SMS includes device ID disable SMS includes signal value diablec	×
ि RT600 Confi श्च COM न Cellular क्षे Serial APP.	Tool SMS alarm setting SMS includes device ID disable SMS includes signal value diablec. Edit RTU Command	×
COM	RT600 Config Tool v1.0.3 Image: Config Tool v1.0.3 SMS alarm setting SMS includes device ID disable SMS includes signal value	×
COM Cellular Cellular Cellular	RT600 Config Tool v1.0.3 - © Tool SMS alarm setting SMS includes device ID disable SMS includes signal value diablec	
COM Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular	RT600 Config Tool v1.0.3 Image: Config Tool v1.0.3 SMS alarm setting SMS includes device ID disable SMS includes signal value	
COM Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular Cellular	RT600 Config Tool v1.0.3 Image: Config Tool v1.0.3 SMS alarm setting SMS includes device ID disable • SMS includes signal value diablec •	~
RT600 Config & COM Cellular ش Cellular RTU > Location Manage ش Others Upgrade	RT600 Config Tool v1.0.3 - G Tool SMS alarm setting SMS includes device ID disable • SMS includes signal value diablec •	
 RT600 Confident Serial APP. Serial APP. RTU Location Manage Others Upgrade Product Info 	RT600 Config Tool v1.0.3 Tool SMS alarm setting SMS includes device ID disable SMS includes signal value diablec< Edit RTU Command Edit RTU Command SMS Config Connect © Disconnect Import Factory Default A Read Save	

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RTU Settings

V1.0.3

COM3,57600-1, none-+++++

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Parameters	Description	Instruction	Default
RTU Function	Disable/ Enable	RTU. is used for data collection from Al and DI interface	NULL
Alarm	Data, SMS, Data +SMS modes options	[Data Alarm] Edit data alarm settings via RTU command in Config tool [SMS Alarm] Edit SMS alarm settings via RTU command in Config tool [Data+SMS Alarm] Edit data/SMS alarm settings via RTU command in Config tool	
Protocol	WLINK protocol, Modbus-RTU, SMS only and custom options	[WLINK Protocol] WLINK Protocol [Modbus-RTU]	
Local Modbus Address	Local device Modbus address	Hex	NULL
Report Interval	Send collection data to server as interval time	0~65535s	10s
Reconnection	Reconnection interval when connection is failed to server.	5~65535s	10s
Auto Offline	RTU will be automatically offline after completed data collection.		Unavailable now
Server IP	Transmit collection data to defined IP address		
Port	Transmit collection data to defined port		
Protocol	Transmit collection data to defined protocol		
Domain	Used for dynamic IP address in HQ.	Only setup server IP as 0.0.0.0, it's available.	N/A
Heartbeat Interval	0~65535s	RTU will automatically send heartbeat to server in order to keep connection. 0 means no heartbeat.	0
SMS Alarm	Disable/Enable	Add device ID in SMS. Device ID must be unique Add AI/DI signal value in SMS	
Edit RTU Command	RTU commands are programmable to collect AI/DI and serial port Modbus data.	Different sensor with different type AI/DI. So the command script will be different. Chapter No.4 includes an instance for temperature sensor Command script as reference.	



3.2.5 GPS Location Settings

0	RT600 Config Tool v1.0.3 – 🗆 🔼 🗶
RT600 Confiç	g Tool
	Run Mode
f COM	Location Disabled -
ल Cellular	Timing Report 10 5~65535 secs
🏚 Serial APP.	Quick Report 10 5~65535 secs
😲 RTU	Auto Shut Down Disabled 💌
	Communication Setting
Location	Server IP 0.0.0.0 Port 40009 Protocol UDP -
🕒 Manage	Domain
🔁 Others	Reconnection 10 5~65535 secs
C. Ungrade	Insert Device ID at head
- spgrade	
🔤 Product Info	Save 🖉 Config Sconnect Disconnect E Import E Factory Default A Read 🖑 Save
	1
V1.0.3	COM3,57600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com

GPS Location settings instruction

Parameters	Description	Instruction	Default
Location	Disable/Enable		Disable
Timing Report	Send GPS data as timing report time. This feature is pointed at fixed location. Suggest configure value more than 600s to save data traffic.	5~65535s	10s
Quick Report	Send GPS data as quick report time. This feature is pointed at moved location. Once the location is moved more than 50m, RT600 will report	5~65535s	10s



Parameters	Description	Instruction	Default
	current GPS data to server traffic.		
Auto Shut Down	Unavailable now		
Server IP	Transmit GPS data to defined IP address	Enable/Disable	Disable
Port	Transmit GPS data to defined port	6 visible characters	
Protocol	Transmit GPS data to defined protocol		
Domain	Used for dynamic IP address in HQ.	Only setup server IP as 0.0.0.0, it's available.	
Insert ID	Insert device ID into GPS data package in order to identify which RTU.		

3.2.6 RTU Remote Management Settings

0	RT600 Config Tool v1.0.3	×
RT600 Confi	g Tool	
	Remote Management	
St COM	Run Mode 🗸	
ल Cellular	Starting Interval 1440 010~65535 secs	
Serial APP.	Server IP 0.0.0.0 Port 51010	
😍 RTU	Domain detran.eicp.net	
> Location	Reconnection 1440 secs	
🖳 Manage		
🕵 Others		
🕵 Upgrade		
Product Info	🐔 Config 🕘 Connect 🔘 Disconnect 🕒 Import 🗠 Export 🗅 Factory Default 🕴 Read	∜ Save
V1.0.3	COM3,57600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com	

RTU Remote management settings instruction

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Parameters	Description	Instruction	Default
Run Mode	Disable/Enable		
Start Interval	RT600 will connect to remote management software as this start interval time.	0 means this function is invalid.	
Remote IP	Remote management software static IP address		0.0.0.0
Port		0~65535	40001
Domain Name	Used for dynamic IP in HQ.	Domain name is available when the IP address is setup 0.0.0.0	NULL
Reconnection	RT600 will reconnect to remote management software as this interval time when the connection is down.	0~65535s	

3.2.7 RTU Others Settings

0	RT600 Config Tool v1.0.3 – 🗆 🗙
RT600 Confi	g Tool
	SMS Setting
A COM	SMS No.
📾 Cellular	
A Corial ADD	Clock
ag Senai APP.	RTC Clock 2017-05-27 🔽 00-00-00 🛧 🖞 Read 🖞 Save
😳 RTU	Others
> Location	Debugging Disabled -
To Managa	Switch cmd ++++++
le Manage	
🛱 Others	會 Erase Collection Data
🕂 Upgrade	
Product Info	Source Disconnect Import Export Factory Default A Read Save
V1.0.3	COM3,57600-1, none-++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.com

RTU Other Settings instruction



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Parameters	Description	Instruction	Default
SMS Function	SMS function is for SMS alarm and SMS RTU configuration only		
SMS No.	Support to configure 11 phone number as Max	The first number acts as administration which might manage other numbers.	
RTU Clock	Configure Clock by manual		
Debugging	RTU debugging information		
Switch CMD	RT600 will be switched to configuration mode from transmission mode. After switched to configuration mode, The RT600 will enter command mode to communicate with end device.		Unavailable now
Erase Collection Data	Erase collection data in Flash		

3.2.8 RTU Upgrade

0	F	RT600 Config Tool v1.0.3	X
RT600 Confi	g Tool		
	Upgrade		
a com	Choose FW		A
ल Cellular	FW Name		
🔹 Serial APP.	Version		
😨 RTU	FW Size		
	FW Checksum		
> Location			
🖳 Manage	Start		
🔁 Others			
🕵 Upgrade			
📰 Product Info	Connect Obscon	nect Factor	ry Default
	The serial port has been opened. Connecting RT600 Connected RT600		Ĵ
V1.0.3	COM3,57600-1, none-+++++	Shenzhen Wlink Technology Co.,Limited	www.wlink-tech.com



RTU Upgrade instruction

Parameters	Description	Instruction	Default
Choose Firmware	Choose firmware		
Firmware Name	Firmware name		
Version	Firmware version		
Firmware Size	Firmware size		
Firmware Checksum	Firmware Verification		

3.2.9 RTU Information

0		RT600 Config Tool v1.0.3	×
RT600 Confi	g Tool		
	Product Info		
COM 👔	Name	V20	
@ Cellular	Model	V20-G12T	
🏤 Serial APP.	Firmware	87.10.00	
To price	Serial Number	100000171100019	
© RIU	Serial Port	2	
> Location	DI Interface	2	
🖳 Manage	AI Interface	2	
• Others	DO Interface	0	
- Others	Storage(MB)	8	
🔁 Upgrade	GPS Module	Support	
🖬 Product Info	🕺 Config 🖉 Co	onnect Disconnect Information Information Information Information Information	♦ Save
	Read parameter comple Read system parameter Read the local comman	ted completed d parameters completed	~
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RTU Information instruction

Parameters	Description	Instruction	Default
Name			
Model			
Firmware			



Parameters	Description	Instruction	Default
Serial Number			
Al Interface			
DI Interface			
DO Interface			
Storage(MB)			
GPS Module			

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0

4 Programmable Command Dem

RT600 Config Tool v1.0.3 RT600 Config Tool Jomain I COM 🏦 Heartbeat Interval Setting 0~65535 seconds 10 Heartbeat @ Cellular Restant APP. SMS alarm setting SMS includes device ID disable -SMS includes signal value diablec -C RTU > Location Edit RTU Command 🖳 Manage SET_ADDR 1; VARS W UAI[2]; VARS W UAI(2); INTF 1000 U UAIV; IN_UA_B UAI(1),2,020300000002A,100; CAL UAIV = UAI(1) << 16 | UAI(2); SLEEP 1000; Cthers 🔃 Upgrade Product Info import Export Default 💦 Config O Connect O Disconnect A Read 🛉 Save saving parameters... ~ saved Saving local commands... Saved V1.0.3 COM6,57600-1, none-1, ++++++ Shenzhen Wlink Technology Co.,Limited www.wlink-tech.co



SET_ADDR 1	// Configured INTF variable Slave address for 1

VARS W UAI[2]; // Defined double-byte integer array for 2

INTF 1000 U UAIV; // Defined Unsigned four-byte integer, no vaule, register address 1000. Keep the register address 1000 as the same as RTU management platform.

IN_UA_B UAI[1],2,02030000002A,100; // Read 2 Analog, then save them to specified position space which is from UAI[1]. Timeout 100ms.

CAL UAIV = UAI[1] << 16 | UAI[2]; // calculate formula

NOTE

Introduce parameter as below.

UAI[1] First Analog variable

2 read 2 analog in succession.

02030000002A Modbus command without CRC checksum.

100 Timeout, unit is ms. No wait if remove this value.