**MVB-UDP** 

Ethernet to MVB Module

Rev.2025.0305



# **MVB-UDP**

Datasheet

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### Foreword

#### **Notational Conventions**

The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
	Indicates static sensitive equipment.
DANGER! ELECTRIC SHOCK	Indicates High voltage danger.
	Provides methods to help you solve a problem or save you time.
NOTE NOTE	Provides additional information as the emphasis and supplement to the text.



## **Table of Contents**

Foreword	I
1 Overview	4
1.1 Introduction	4
1.2 Features	4
1.3 Applications	4
1.4 Order Information	5
1.5 Technical Specifications	5
1.6 Mechanical Dimension Drawing	6
2 Hardware and Physical Interfaces	7
2.1 Appearance	7
2.2 LED Indicators	7
2.3 Extended Pin Definition	8
2.3.1 X1: 1x13 2.54mm pitch connector	8
2.3.2 X2: 1x13 2.54mm pitch connector	8
3 Application and Development	. 10
3.1 Application Mode	. 10
3.2 Hardware Development	10
3.3 Software Development	. 10
3.3.1 Programming Manual	10
3.3.2 Reference Code	. 10
4 Working State and Initialization	11
4.1 Working State	11
4.2 Module Initialization Method	11
4.3 Host Initialization Programming Interface	11
5 Building Configuration Environment	. 12
5.1 Connect Management Computer to MVB-UDP	12
5.1.1 Configure with special DMS-UART interface	12
5.1.2 Configuration with Ethernet interface	. 12
5.2 Get Configuration Management Software yacer-DMS	13
5.3 Run yacer-DMS Software	13
5.4 Select & Open Configuration Serial Port	13
5.5 Main Window of yacer-DMS	14
5.6 Statistical Report	14
5.6.1 Control panel	14
5.6.2 Receive & Transmit indication panel	. 15
5.6.3 Information panel	15
5.7 Configure Device	. 15
6 Function and Configuration	17
6.1 System Configuration	. 17
6.1.1 Initialization Method	. 17
6.1.2 Serial Port Baud Rate	. 17



#### **MVB-UDP** Datasheet

6.1.3 MVB Operating Mode	17
6.1.4 MVB forwarding interface	18
6.2 Ethernet Interface Configuration	
6.3 MVB Configuration	19
6.3.1 Device address	19
6.3.2 Media type	19
6.3.3 Line type	
6.3.4 PD port configuration table	20
6.4 Firmware Version Upgrade	20
6.4.1 Start upgrade	20
6.4.2 Select version file	21
6.4.3 Complete upgrade	21
6.4.4 Confirm upgrade	22
6.5 Reboot Device	



### **1** Overview

#### **1.1 Introduction**

The Yacer MVB-UDP embedded slave module provides 1x MVB interface, 1x 100M Ethernet PHY interface, 1x UART serial port, realizes protocol conversion between MVB and UDP, serial port, and supports MVB bus process data (PD) acquisition.

46.5 x 48 mm compact size, 2.54 mm pin header connector. Flexible configuration, easy development, suitable for embedded applications.



#### **1.2 Features**

- 1x MVB interface, supporting EMD and ESD+
- 1x Ethernet interface for MVB-to-UDP protocol conversion
- 1x UART serial port for MVB-to-serial port conversion
- Supports the MVB slave station function and PD data acquisition
- + 5V power supply, low power consumption
- Wide temperature range from -40°C to +85°C
- A comprehensive development kit accelerate the development process

#### 1.3 Applications

- Protocol conversion between MVB and TCP/IP;
- Interface conversion betewen MVB and Ethernet;
- interface conversion between MVB and serial port;
- MVB bus PD data monitoring;
- Train Control and Management System (TCMS);
- Train Communication Network (TCN);
- Embedded development and application.



### **1.4 Order Information**

Model	Description
MVB-UDP-300	1 x MVB + 1x 100M Ethernet PHY + 1x UART

### **1.5 Technical Specifications**

Item	Parameters	Details
	Media support	EMD, ESD+
	Device class	Class 1
MVB Interface	Device capabilities	Device_Status, Process_Data(PD)
	Number of PD ports	32
	Isolation	2.5 kVrms
	Number	1x PHY
Ethernet	Rate	100 Mbps
Interface	Protocol	UDP
	Programming	UDP Server, UDP Client,
	interface	supports unicast / multicast / broadcast
	Level standard	3.3V LVCMOS
Serial Port	Working mode	Asynchronous UART
	Baud rate	≤ 921.6 Kbps
	Configuration	Special DMS-UART interface
Configuration	interface	(with the DMS-UART-8P configuration cable)
Management		Ethernet interface
	Configuration tool	yacer-DMS configuration management software
Power	Power supply	+5 VDC
Requirements	Power consumption	< 2W
Mechanical	Connector	2x 2.54mm pitch 13-pin single-row male connectors



#### **MVB-UDP** Datasheet

Item	Parameters	Details
Characteristics	Dimensions	46.5 x 48 mm
	Weight	15 g
	Operating	-40 ~ +85℃
	temperature	
Operating	Storage	10 - 195°C
Environment	temperature	-40 ~ +65 C
	Operating humidity	5 ~ 95% RH (no condensation)

#### **1.6 Mechanical Dimension Drawing**





## **2** Hardware and Physical Interfaces

#### 2.1 Appearance

The top and bottom view of MVB-UDP are as follows, and the signals are drawn out through connector X1 and X2.

X3 is the configuration interface used to connect the DMS-UART-8P configuration cable and configure it online through the management computer's USB interface.





#### 2.2 LED Indicators

ltem	Description
RUN	Running indicator, green light flashes during normal operation
ALM	<ul> <li>Alarm indicator</li> <li>Initialization phase blinking: waiting for the host computer configuration command</li> <li>Normal operation status off: the device is working normally</li> <li>Normal operation status on: device failure</li> </ul>
PWR	Power indicator, always on after power on



### 2.3 Extended Pin Definition

#### 2.3.1 X1: 1x13 2.54mm pitch connector

Pin	Name	Туре	Description
1	MVB_A_5V_OUT	0	MVB interface Line A power output
2	MVB_A_TxD +	0	MVB interface Line A transmit positive (+)
3	MVB_A_TxD -	0	MVB interface Line A transmit negative ( - )
4	MVB_A_RxD +	1	MVB interface Line A receive positive(+)
5	MVB_A_RxD -	1	MVB interface Line A receive negative ( - )
6	MVB_A_GND		MVB interface Line A ground
7	NC		Standby, this pin must be left floating
8	MVB_B_5V_OUT	0	MVB interface Line B power output
9	MVB_B_TxD +	0	MVB interface Line B transmit positive (+)
10	MVB_B_TxD -	0	MVB interface Line B transmit negative ( - )
11	MVB_B_RxD +	1	MVB interface Line B receive positive (+)
12	MVB_B_RxD -	1	MVB interface Line B receive negative ( - )
13	MVB_B_GND		MVB interface Line B ground

NOTE: User must short connect TxD+ and RxD+, TxD- and RxD- of MVB.

#### 2.3.2 X2: 1x13 2.54mm pitch connector

Pin	Name	Туре	Description
1	GND		Logical Ground
2	ETH_RX+		Rx+ for Ethernet PHY interface, external network transformer required
3	ETH_RX-		Rx- for Ethernet PHY interface, external network transformer required



**MVB-UDP** Datasheet

Pin	Name	Туре	Description
4	ETH_TX+		Tx+ for Ethernet PHY interface, external network transformer required
5	ETH_TX-		Tx- for Ethernet PHY interface, external network transformer required
6	ETH_LED	0	Ethernet Link/Act indication, drive LED positive
7	NC		Standby, this pin must be left floating
8	UART_RxD	I	Serial port data receive
9	UART_TxD	0	Serial port data transmit
10	RESET_IN	I	Module reset, active low. Power-On Reset supported, Pin can be suspended.
11	NC		Standby, this pin must be left floating
12	+5V	1	Power input, +5 VDC
13	GND		Logical Ground



## **3** Application and Development

#### 3.1 Application Mode

It supports connecting the MVB-UDP module and the host MCU through two modes: UART and Ethernet. We can choose one of them when developing.

UART mode



					Ethernet				Ē	 Male Sub-D 9	— Line_A — Line_B
	MCU		РНҮ	Η	<b>Transformer</b>	Η	Transformer	MVB-UDP		Female Sub-D 9	 — Line_A
1		RMII						 			— Line_B

#### 3.2 Hardware Development

Reference: MVB-UDP\_Hardware\_Desgin\_Guide

#### 3.3 Software Development

#### 3.3.1 Programming Manual

The MVB-UDP module and the host MCU communicate through messages, please refer to '*THCP\_Programming\_Manual*' for details.

#### 3.3.2 Reference Code

UART-PPP protocol implementation C code: yacer\_uart\_ppp.c

Users can obtain THCP references C code from MVB-UDP accompanied U-Disk:

- For Host initialization mode, the reference code directory is "host\_thcp\_example";
- For Local initialization mode, the reference code directory is "local\_thcp\_example".



### **4** Working State and Initialization

#### 4.1 Working State

MVB-UDP module has two working states:

- Initialization state: the module enters the initialization state firstly when it starts up, receives or loads the configuration and carries out the system initialization operation;
- Running state: the module enters the running state after initialization, and works according to the configuration.

#### 4.2 Module Initialization Method

MVB-UDP module has two initialization methods:

- Host initialization: after the module is powered on, it obtains configuration data from the host computer through messages and carries out system initialization operation. The system default is Host initialization;
- Local initialization: after the module is powered on, load the configuration data in the on-board FLASH of the module for initialization.

#### 4.3 Host Initialization Programming Interface

Refer to the document 'THCP\_Programming\_Manual'.



## **5** Building Configuration Environment

#### 5.1 Connect Management Computer to MVB-UDP

MVB-UDP provides a variety of configuration management methods to meet different application scenarios.

After the MVB-UDP is configured, the configuration parameters are saved in FLASH on the MVB-UDP board, and will be automatically loaded to work every time MVB-UDP is powered on or restarted in the future.

#### 5.1.1 Configure with special DMS-UART interface

Connect the special DMS-UART interface (X3) of MVB-UDP to the USB interface of the computer with the DMS-UART-8P configuration cable.



#### 5.1.2 Configuration with Ethernet interface

Users can connect the MVB-UDP to the management computer via Ethernet, and run yacer-DMS configuration management software on the computer to configure and manage the MVB-UDP.





#### 5.2 Get Configuration Management Software yacer-DMS

The user can obtain a compressed package yacer-DMS.zip of configuration management software in the following ways:

- In the "Softwares" directory of the accompanied U disk of MVB-UDP;
- Software channel on the official website (www.yacer.com.cn).

#### 5.3 Run yacer-DMS Software

As the free-installation application software, unzip yacer-DMS.zip, enter the working directory and double click the file yacer-DMS.exe to run.

#### 5.4 Select & Open Configuration Serial Port

When DMS-UART-8P configuration line is connected to the management computer USB interface, the computer will add a USB simulation serial port.

Click the "Interface" button on the toolbar to pop up the "Host Interface for DMS" configuration dialog. Enter the "Serial" page, select the serial port of the computer connected to MVB-UDP from the drop-down list, and click "Open Serial" button.



If the serial port is successfully opened, the status is as follows:

fresh
Serial



#### 5.5 Main Window of yacer-DMS

The following figure is the main interface of the configuration management software, which can be divided into three parts:

- Toolbar: Functional operation buttons;
- Device List: Displaying the basic information and operation status of online devices;
- Statistical Report: Displaying the receive/transmit indication & statistics, and device details.

Inter	rface	9	Confi	Test	Reboot	Upgrade	View	Stay o	n top	Help	Ping	Chinese	Too	olbar	
	St	atu	IS		Model		S/N	N	I	P Addre	255		Alias		
	(	ок		M	VB-UDP-30	00	AY24C0	00002	19	2 <mark>.168.</mark> 2.	200	Devic	e List	t	
VB-U	DP-30	00 1	Report											Clea	ar
	Тх	R		MVR-UP	0P-300 Info	ormation									_
<b>NVB</b>	0	0	x	Runn	ning time:	2h 52m 48	S	J	2 1 6 0 2	200					
AVB SER	0	0		Runr Devi Harc Initia	hing time: ce S/N: AY Iware Vers Ilize 1 : SU	2h 52m 48 /24C00002 sion: 2.0 F CCESS by 9	s IP Ado PGA Ve SER	dress: 19 rsion: 20	2.168.2 24.101	2.200 5 Firm	ware: 2	024.1017.3	272		
AVB ER JDP	0 0 0	0		Runr Devi Harc Initia Interface	ning time: ce S/N: AY Iware Vers Ilize 1 : SU e	2h 52m 48 /24C00002 sion: 2.0 I CCESS by 9	is IP Add FPGA Vei SER	dress: 19 rsion: 20	2.168.2 24.101	2.200 5 Firm	ware: 2	024.1017.3	272		
IVB ER DP	0 0 0	0		Runr Devi Harc Initia Interface MVB SER	hing time: ce S/N: AY Iware Vers Ilize 1 : SU e :: Tx = 0, R UART: Tx :	2h 52m 48 /24C00002 sion: 2.0 I CCESS by S x = 0 = 2, Rx = 1	s IP Ado FPGA Ve SER 0404, Rx	dress: 19 rsion: 20 ( invalid =	2.168.2 24.101 = 1	2.200 5 Firm	ware: 2	024.1017.3	272		
er IDP	0000	0		Runr Devi Harc Initia Interface MVB SER UDP	ning time: ce S/N: AY lware Vers lize 1 : SU e : Tx = 0, R UART: Tx : : Tx = 1, R	2h 52m 48 /24C00002 sion: 2.0 F CCESS by 9 x = 0 = 2, Rx = 1 x = 0	is IP Add FPGA Ve SER 0404, Rx	dress: 19 rsion: 20 a invalid =	2.168.2 24.101 = 1	2.200 5 Firm	ware <mark>:</mark> 2	024.1017.3. Statisti	272 cal Re	port	
AVB ER IDP	000	0		Runr Devi Harc Initia Interface MVB SER UDP DMS Se	hing time: ce S/N: AY lware Vers lize 1 : SU e : Tx = 0, R UART: Tx : Tx = 1, R rvice	2h 52m 48 (24C00002 sion: 2.0 I CCESS by x = 0 = 2, Rx = 1 x = 0 = 0	IP Add FPGA Ve SER 0404, Rx	dress: 19 rsion: 20 a invalid =	2.168.2 24.101 = 1	2.200 5 Firm	ware: 2	024.1017.3. Statistic	272 cal Re	port	
IVB ER DP	0 0 0	000	×	Runr Devi Harc Initia Interface MVB SER UDP DMS Se DMS Mes	hing time: ce S/N: AY dware Versi- $dware Versi- eTx = 0, RUART: Tx = - 0, RUART: Tx = - 0, RTx = - 0$	2h 52m 48 (24C00002 sion: 2.0 I CCESS by $(x = 0)$ = 2, Rx = 1 x = 0 (51, Rx = 2) th: config	s IP Add FPGA Ver SER 0404, Rx 1433 = 200 by	dress: 19 rsion: 20 : invalid = rtes, repo	2.168.2 24.101 = 1 ort = 30	2.200 5 Firm 04 byte:	ware: 2	024.1017.3. Statistic	272 cal Re	port	
IVB ER DP	0 0 0	0	~	Runr Devi Harc Initia Interface MVB SER UDP DMS Se DMS Mess Loop	hing time: ce S/N: AY lware Vers lize 1 : SU e : Tx = 0, R UART: Tx = : Tx = 1, R: rvice :: Tx = 210 sage Leng o = 2, max	2h 52m 48 (24C00002) sion: 2.0 F CCESS by 5 x = 0 = 2, Rx = 1 x = 0 (51, Rx = 2) th: config = 294566	IS IP Add PGA Ver SER 0404, Rx 1433 = 200 by us	dress: 19 rsion: 20 : invalid = rtes, repo	2.168.2 24.101 = 1 ort = 30	2.200 5 Firm 04 byte:	ware: 2 s	024.1017.3. Statistic	272 cal Re	port	
IVB ER DP	0 0 0	0	×	Runn Devi Harc Initia Interface MVB SER UDP DMS Se DMS Mes Loop MVB	hing time: ce S/N: AY lware Vers lize 1 : SU e : Tx = 0, R UART: Tx = : Tx = 1, R rvice :: Tx = 210 sage Leng p = 2, max :: Device S	2h 52m 48 (24C00002) sion: 2.0 F CCESS by 9 x = 0 = 2, Rx = 1 x = 0 151, Rx = 2 th: config = 294566 tatus $= 0x0$	IP Add FPGA Ver SER 0404, Rx 1433 = 200 by us C0 LAT R	dress: 19 rsion: 20 : invalid = rtes, repo	2.168.2 24.101 = 1 ort = 30 chover	2.200 5 Firm 04 bytes = 36, T	ware: 2 s	024.1017.3. Statistic	272	port	

#### 5.6 Statistical Report

The statistical report has three panels: control panel, receive/transmit indication panel and information panel.

#### 5.6.1 Control panel

Statistical report data is refreshed once per second and can be cleared by clicking the "Clear" button.

MVB-UDP-300 Report

Clear



#### 5.6.2 Receive & Transmit indication panel

- Tx: The interface sends a frame of data, corresponding Tx indicator blinks once;
- Rx: The interface receives a frame of data, corresponding Rx indicator blinks once.

	Tx	Rx
MVB	0	0
SER	0	0
UDP	0	0

#### 5.6.3 Information panel

The right side of the statistical report is the information panel, which can display the following contents:

- Device information: Running time, S/N and Version number;
- Interface: Receive/transmit statistics of MVB, UART interface and UDP packets on Ethernet interface;
- DMS Service: Configuration management message receive/transmit statistics, MVB device status information.

#### 5.7 Configure Device

Click the "Device Configuration" button on the toolbar or double-click the selected device in the device list, yacer-DMS pops up the configuration dialog.

/stem Config		Ethernet	
nitialize Mode Serial Baudrate(bps)	Value Uccal  Value Value	IP Address Subnet Mask	ETH 192.168.2.200 255.255.255.0
Vork Mode	Slave ~ Serial ~	Default Gateway Rx Multicast Rx UDP Port	0.0.0.0 0.0.0.0 0
		Tx IP Address Tx UDP Port	0.0.0.0 0



The following action buttons are included at the bottom of the dialog box.

Button	Function				
Troub	Open the configuration file, read the configuration				
Import	parameters refresh the configuration dialog				
Recent	Export configuration parameters from the configuration				
Lxport	dialog to a file for saving				
	Refresh the configuration dialog with the factory				
Restore Defaults	paramters				
	Write the configuration parameters in the dialog to the				
Apply and Reboot	deivce, and restart the device to make the configuration				
	take effect				
Cancel	Cancel current configuration operation				



## **6** Function and Configuration

### 6.1 System Configuration

	Value	
Initialize Mode	😝 Local	~
Serial Baudrate(bps)	115200	
Work Mode	Slave	¥
Forward Interface	Serial	~

#### 6.1.1 Initialization Method

Configure the initialization method of the module, the factory default is Host method.

Initialize Mode

😔 Local	~
Host	
\varTheta Local	

#### 6.1.2 Serial Port Baud Rate

Configure the serial port baud rate.

Other serial port parameters are: data bit 8bit, stop bit 1bit, no parity.

#### 6.1.3 MVB Operating Mode

Module MVB has two modes of operation:

- Slave mode: MVB slave PD bidirectional communication mode;
- Acquisition Mode: Receive all PD data from the MVB bus. The module works in pure reception mode and will not output all frames including device status and PD to the MVB bus.

Work Mode

Slave	~
Slave	
Acquisition	



#### 6.1.4 MVB forwarding interface

Local Initialization Mode This configuration is valid. Host mode indicates the current host interface.

Forward Interface	Se
	and the second

terface	Serial 🗸 🗸
	Serial
	Ethernet

#### 6.2 Ethernet Interface Configuration

	ETH
P Address	192.168.2.200
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Rx Multicast	224.10.10.10
Rx UDP Port	7000
Tx IP Address	192.168.2.210
Tx UDP Port	6000

This page is used to configure the IP address of Ethernet interface, and the IP and UDP ports for communication between the host computer and MVB-UDP module, including the following:

- IP Address: Configure the IP address of Ethernet interface.
- Subnet Mask: Configure the Subnet Mask of Ethernet interface.
- Default Gateway: Configure the default gateway of Ethernet interface. The default gateway is set to 0 when there is no need to communicate with devices across network segments.
- Receive multicast address: When the host sends messages to MVB-UDP, use this multicast address as the destination IP.
- Receive UDP port: When the host sends messages to MVB-UDP, use this port as the UDP destination port.
- Destination IP address: When MVB-UDP sends messages to the host, use this IP address as the destination IP.
- Destination UDP Port: When MVB-UDP sends messages to the host, use this port as the UDP destination port.



#### 6.3 MVB Configuration

The MVB configuration page is shown below, with the MVB interface and forwarding configuration on the left, and the PD port configuration table on the right.

In Local initialization mode, the module initializes the MVB interface with this configuration.

In Host initialization mode, this page shows the configuration parameters from the host computer.

	MVB		PD Port Type	PD Port	Port Size
Device Address	100	1	🥥 Sink Port ∨	1500	32 bytes $\sim$
Media Type	EMD ~	2	⊖ Source Po ∨	2000	32 bytes 🛛 🗸
Line Mode	Line Both 🛛 🗸	3	⊖ Sink Port ∨	3000	8 bytes 🗸 🗸
		4	X Disable	3001	8 bytes v
		5	O Source Port	3002	8 bytes v
		6	⊖ Sink Port ∨	3003	8 bytes v
		7	⊖ Sink Port ∨	3004	8 bytes v
		8	⊖ Sink Port ∨	3005	8 bytes 🗸 🗸
		9	⊖ Sink Port ∨	3006	8 bytes 🗸 🗸
		10	⊖ Sink Port ∨	3007	8 bytes v
		11	⊖ Sink Port ∨	3008	8 bytes v

#### 6.3.1 Device address

Users configure device address in the range of 0 to 4095 according to field requirements.

#### 6.3.2 Media type

According to the application requirements, users can choose the medium type.

Media Type:	ESD 🔻
	ESD
	EMD



#### 6.3.3 Line type

Line Mode:

Line	A	•
Line	Both	
Line	A	
Line	В	

Users can choose:

- Line Both: double-line redundancy;
- Line A: A line single line mode;
- Line B: B line single line mode.

#### 6.3.4 PD port configuration table

The default version of MVB-UDP supports the configuration of up to 32 process data ports. If users need to configure more PD ports, please contact the manufacturer for customization.

Each PD port entry includes the following parameters:

- PD Port Type: Sink or Source port, Disable means this entry is invalid;
- PD Port Number: Set port number 0 ~ 4095;
- PD Port Size: 2, 4, 8, 16, 32 bytes correspond to 0 ~ 4 of Fcode;

#### 6.4 Firmware Version Upgrade

#### 6.4.1 Start upgrade

Click the "Upgrade" button on the toolbar to pop up the version upgrade dialog, and then click the "Start" button.

Interiace	Config	lest	Keboot	Upgrade	view	Stay on	top	негр	Fing	Unine	ese
Stat	us		Model		S/I	1	I	P Addre	255		Alia
JE Vers	ion Upgrad	le: 192.1	68.2.200 S	/N AY24C0000	)2					?	×
	File	Size:		0	byt	es					
_		Send:		0	byt	∋s					
VB	Re	ceive:		0	byt	es					
0	Status:										
/N	lease cli	ick th	e "Start	button to	upg	rade!					
SE											
JC									F		
										Star	't



#### 6.4.2 Select version file

Pop up the "Select version file" dialog, and find the folder where the latest firmware version is stored, select the corresponding file, and click "Open" to start the update.

Select version file				×
$\leftrightarrow \rightarrow \checkmark \uparrow$	<ul> <li>OS (C:) → Firmware</li> </ul>	~ C	在 Firmware 中搜索	م
组织▼ 新建文件夹			≣ ▪	
	名称 ^		修改日期	类型
> 🔷 WPS云盘	yc-3272.bin		2024/10/25 14:03	<b>BIN 文件</b>
◇ 📮 此电脑				
> 💾 OS (C:)				
> 📬 网络				
文件名	(N): yc-3272.bin	~	Version file	~
			打开(O)	取消

#### 6.4.3 Complete upgrade

When the page displays "Version upgrade complete" status, it indicates that the version upgrade is completed.

	200 S/N AY24C0000	2	?	×
File Size:	749076	bytes		
Send:	749076	bytes		
Receive:	749076	bytes		
💡 Status:				
Version upgrade co after reboot!	aplete. The new	version take effect		
C:/Firmware/yc-3272.bin open successfully Version file read successfully: 749076			Star	
	sfully: 749076			rt
Version file uploading Initializing FLASH BANK	sfully: 749076 B		Sto	p
Version file uploading Initializing FLASH BANK Version file upload comp All data is received and Version file CRC check s	sfully: 749076 B lete programmed succe: ucceeded	ssfully	Sto	p
Version file uploading Initializing FLASH BANK Version file upload comp All data is received and Version file CRC check s Version upgrade is compl	sfully: 749076 B lete programmed succe: ucceeded ete!	sfully	Sto	p
Version file uploading Initializing FLASH BANK Version file upload comp All data is received and Version file CRC check s Version upgrade is compl	sfully: 749076 lete programmed succe: ucceeded ete!	sfully	Sto	p
Version file uploading Initializing FLASH BANK Version file upload comp All data is received and Version file CRC check s Version upgrade is compl	sfully: 749076 lete programmed succe: ucceeded ete!	ssfully	Sto	p



#### 6.4.4 Confirm upgrade

After the upgrade is completed, power up the device again, observe the version information in the statistical report, and determine whether the new version is successfully updated by the version date.

 MVB-UDP-300 Information Running time: 49m 59s Device S/N: AY24C00002 IP Address: 192.168.2.200 Hardware Version: 2.0 FPGA Version: 2024.1015 Firmware: 2024.1017.3272 Initialize 1 : SUCCESS by SER

#### 6.5 Reboot Device

Click the "Reboot" button on the toolbar to pop up the device reboot dialog, and then click the "Reboot" button to reboot the device.





#### About the Manual

- The manual is for reference only. If there is inconsistency between the manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the manual.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- Please visit our website, contact the supplier or customer service if there is any problem occurring when using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.