



**Synway IPPBX Series**

**UC500H**

# **Hardware Manual**

**Synway Information Engineering Co., Ltd**

**[www.synway.net](http://www.synway.net)**

# Content

<b>Content .....</b>	<b>i</b>
<b>Copyright Declaration .....</b>	<b>ii</b>
<b>Chapter 1 Product Introduction .....</b>	<b>1</b>
1.1 Characteristic Features .....	1
1.2 Hardware Description .....	1
<b>Appendix A Technical Specifications .....</b>	<b>3</b>
<b>Appendix B Technical/sales Support .....</b>	<b>4</b>

# Copyright Declaration

All rights reserved; no part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, without prior written permission from Synway Information Engineering Co., Ltd (hereinafter referred to as 'Synway').

Synway reserves all rights to modify this document without prior notice. Please contact Synway for the latest version of this document before placing an order.

Synway has made every effort to ensure the accuracy of this document but does not guarantee the absence of errors. Moreover, Synway assumes no responsibility in obtaining permission and authorization of any third party patent, copyright or product involved in relation to the use of this document.

# Chapter 1 Product Introduction

Thank you for choosing the Synway IPPBX Series UC500H products (hereinafter referred to as 'UC500H'). This products integrate the analog, digital and wireless subboards, can connect the traditional phone sets, the fax machines, the PSTN and the enterprise PBX as well as the wireless network to implement multiple features of analog, digital and wireless gateways, providing a powerful, reliable and cost-effective VoIP solution for such occasions as IP call centers and multi-branch agencies.

## 1.1 Characteristic Features

- UC500H-30 supports up to 30 concurrent calls and up to 150 extensions.
- UC500H-60 supports up to 60 concurrent calls and up to 300 extensions.
- UC500H-80 supports up to 80 concurrent calls and up to 400 extensions.
- UC500H-100 supports up to 100 concurrent calls and up to 500 extensions.
- Built in with multi-level IVR systems, supporting teleconferencing, call queuing, CDR, sound monitoring, call broadcasting, etc.
- Supports HTTPS, TLS and SRTP to guarantee the safety of communications.
- Includes two Gigabit Ethernet network interface cards, supporting three modes: Dual, Bridge and Route.
- Has 16G internal storage with extendable external storage via TF and USB cards.

## 1.2 Hardware Description

UC500H uses the cortex A53 hardware architecture and supports two Gigabit Ethernet ports. The table below gives a detailed introduction to the interfaces, buttons and LEDs on UC500H.

Interface	Description
<b>LAN</b>	Amount: 2
	Type: RJ-45
	Bandwidth: 10/100Mbps
	Self-Adaptive Bandwidth Supported
	Auto MDI/MDIX Supported
<b>Console Port</b>	Amount: 1
	Type: RS-232
	Baud Rate: 115200 bps
	Connector: MiniUSB
	Data Bits: 8 bits
	Stop Bit: 1 bit
	Parity Unsupported
	Flow Control Unsupported
Button	Description
<b>Power Key</b>	The power key for the board power supply
<b>Reset Button</b>	Restore the gateway to factory settings.
LED	Description

<b><i>Power Indicator</i></b>	Indicates the power state. It lights up when the gateway starts up with the power cord well connected.
<b><i>Run Indicator</i></b>	Indicates the running status.
<b><i>Alarm Indicator</i></b>	Alarms the device malfunction.
<b><i>Link Indicator</i></b>	The green LED on the left of LAN, indicating the network connection status.
<b><i>ACT Indicator</i></b>	The orange LED on the right of LAN, whose flashing tells data are being transmitted.

For other hardware parameters, refer to [Appendix A Technical Specifications](#).

# Appendix A Technical Specifications

## Dimensions

440×88×372mm<sup>3</sup>

## Weight

5.4kg

## Environment

Operating temperature: 0 °C—45 °C

Storage temperature: -20 °C—85 °C

Humidity: 8%— 90% non-condensing

Storage humidity: 8%— 90% non-condensing

## LAN

Amount: 2 (10/100 BASE-TX (RJ-45))

Self-adaptive bandwidth supported

Auto MDI/MDIX supported

## Console Port

Amount: 1 (RS-232)

Baud rate: 115200bps

Connector: MiniUSB Connector

Data bits: 8 bits

Stop bit: 1 bit

Parity unsupported

Flow control unsupported

*Note: Follow the above settings to configure the serial port; or it may work abnormally.*

## Power Requirements

Input power: 100~240V AC

Maximum power consumption: ≤150W

## Signaling & Protocol

SS7: TUP, ISUP

ISDN: ISDN User Side, ISDN Network Side

SS1: SS1 Signaling

SIP signaling: SIP V1.0/2.0, RFC3261

## Audio Encoding & Decoding

G.711A 64 kbps

G.711U 64 kbps

G.729A/B 8 kbps

G723 5.3/6.3 kbps

G722 64 kbps

AMR 4.75/5.15/5.90/6.70/7.40/7.9  
5/10.20/12.20 kbps

iLBC 13.3/15.2 kbps

## Sampling Rate

8kHz

## Safety

Lightning resistance: Level 4

## Appendix B Technical/sales Support

Thank you for choosing Synway. Please contact us should you have any inquiry regarding our products. We shall do our best to help you.

### **Headquarters**

Synway Information Engineering Co., Ltd

<http://www.synway.net/>

9F, Synway D&R Center, No.3756, Nanhuan Road, Binjiang District,  
Hangzhou, P.R.China, 310053

Tel: +86-571-88860561

Fax: +86-571-88850923

Wechat QR Code: Scan the QR code below to add us on Wechat.



### **Technical Support**

Tel: +86-571-88864579

Mobile: +86-18905817070

Email: [techsupport@sanhuid.com](mailto:techsupport@sanhuid.com)

Email: [techsupport@synway.net](mailto:techsupport@synway.net)

MSN: [synway.support@hotmail.com](mailto:synway.support@hotmail.com)

### **Sales Department**

Tel: +86-571-88860561

Tel: +86-571-88864579

Fax: +86-571-88850923

Email: [sales@synway.net](mailto:sales@synway.net)