



Synway IPPBX Series

UC500

Hardware Manual

Synway Information Engineering Co., Ltd

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Copyright Declaration

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Chapter 1 Product Introduction

Thank you for choosing the Synway IPPBX Series UC500 products (hereinafter referred to as ‘UC500’). It is an excellent VoIP solution that Synway developed for Enterprise Unified Communications, Customer Service Center, Hotel Voice Communications, etc.

1.1 Characteristic Features

- UC500-30 supports up to 30 concurrent calls and up to 150 extensions.
- UC500-60 supports up to 60 concurrent calls and up to 300 extensions.
- UC500-80 supports up to 80 concurrent calls and up to 400 extensions.
- UC500-100 supports up to 100 concurrent calls and up to 500 extensions.
- Integrates 2 FXO ports and 2 FXS ports for communications without power.
- 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 100-megabyte 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

UC500 adopts built-in 220V dual power supply. The table below gives a detailed introduction to the interfaces, buttons and LEDs on UC500.

Interface	Description
LAN	Amount: 2
	Type: RJ-45
	Bandwidth: 10/100Mbps
	Self-Adaptive Bandwidth Supported
	Auto MDI/MDIX Supported
FXS/FXO	Amount: 4
	Type: RJ-11
	Maximum Transmission Distance: 1500m
	Charge Mode: Negative Anti-billing Supported
Console Port	Amount: 1
	Type: MiniUSB
	Baud Rate: 115200 bps
	Connector: MiniUSB
	Data Bits: 8 bits
	Stop Bit: 1 bit
	Parity Unsupported
	Flow Control Unsupported
Power	External power input: 220V

Button	Description
Reset	Restore the IPPBX to factory settings.
LED	Description
PWR	Indicates the power state. It lights up and keeps on after UC500 starts up with the power cord well connected.
SYS	Keeps on after the startup of Linux and regularly flashes after the bootup of the PBX service.
TF	Keeps on since the TF card is well connected and flashes in data reading and writing.
USB	Keeps on since the USB device is well connected and flashes in data reading and writing.
WAN	Keeps on since the network is well connected and flashes in data transmission.
LAN	Keeps on since the network is well connected and flashes in data transmission.
Channel Indicator	<p>FXS and FXO channels are respectively marked by green and red LED after power on.</p> <ol style="list-style-type: none"> 1. When the channel is idle, the LED Lights up; 2. When the channel is off-hook, the LED flashes slowly; 3. When the channel is ringing, the LED flashes fast.

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

Appendix A Technical Specifications

Dimensions

440×202×44mm³

Weight

暂时没有数据

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

FXS Port

Amount: 2

Type: RJ11

Maximum transmission distance: 1500m

FXO Port

Amount: 4

Type: RJ11

Impedance

Telephone line impedance: Compliant with the national standard impedance for three-component network

Console Port

Amount: 1 (MiniUSB)

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: 220V DC

Signaling & Protocol

SIP signaling

Supported protocol: SIP V1.0/2.0, RFC3261

Audio Encoding & Decoding

G.711A 64 kbps

G.711U 64 kbps

G.729 8 kbps

Sampling Rate

8kHz

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

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