Synway HMP Series

SynHMP

Host Media Processing

Product Introduction

Synway Information Engineering Co., Ltd

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➤ Brief Introduction

SynHMP consists of two parts: HMP Server and HMP Client. HMP Client is responsible for receiving/transmitting the RTP data from/to HMP Server and the remote side, and performing the corresponding data encoding and decoding. HMP Server is in charge of recording the received RTP packets and writing them to the hard disk, reading the voice data from the memory or the hard disk, packaging them into RTP and transmitting them to HMP Client. Finally, it is HMP client that sends the RTP to the remote side.

➤ HMP Server

1. Functions

- Supports up to 2400 IP channels

- Supports in conversation: recording and playing, volumn adjustment, dynamical change in CODEC format, etc.

- Allows simultaneous voice recording and playing on all channels; supports Automatic Gain Control (AGC) in recording operation

- IP call transfer and hold support

- Allows DTMF transmission and detection in SIP-INFO and RFC2833

- Allows the detection of In-band DTMF

- The flexible distributed conferencing system sets no limit on the number of simultaneous conferences and participants in each conference, allows monitoring and recording of the whole conference and each individual speaker

2. Characteristic Features

- **Multiple Programming Modes**

  Supports three programming modes: Polling, Event callback and Windows message.

- **Various CODECs Support**

  Supports A-Law, μ-Law, etc.

- **Supports WAV File**

The recorded voice files can be edited and played by audio tools such as Cooledit.

- **Barge in**

Supports the Barge-in function.

- **Flexible Authorization Strategy**

This software is authorized by USB KEY with a unique serial number. Users may specify the number of authorized channels or upgrade it if not enough. As long as you tell the serial number of your USB KEY to us, we will provide you the upgrade file which you can use to upgrade by yourself.

- **Authorization Code Identification Circuit**

The on-board authorization code identification circuit is designed for software safety. Users can apply to our company for the authorization code.

- **Synway's Unified SynCTI Driver Development Platform**

Synway owns the intellectual property rights for the unified high-intelligence SynCTI driver development platform. This software can be used with other Synway boards in a same environment, using the unified API functions, configuration items and event interfaces.

➤ HMP Client

1. Functions

- Distributed module deployment and expansion
- Receiving and transmitting RTP data in different encoding formats
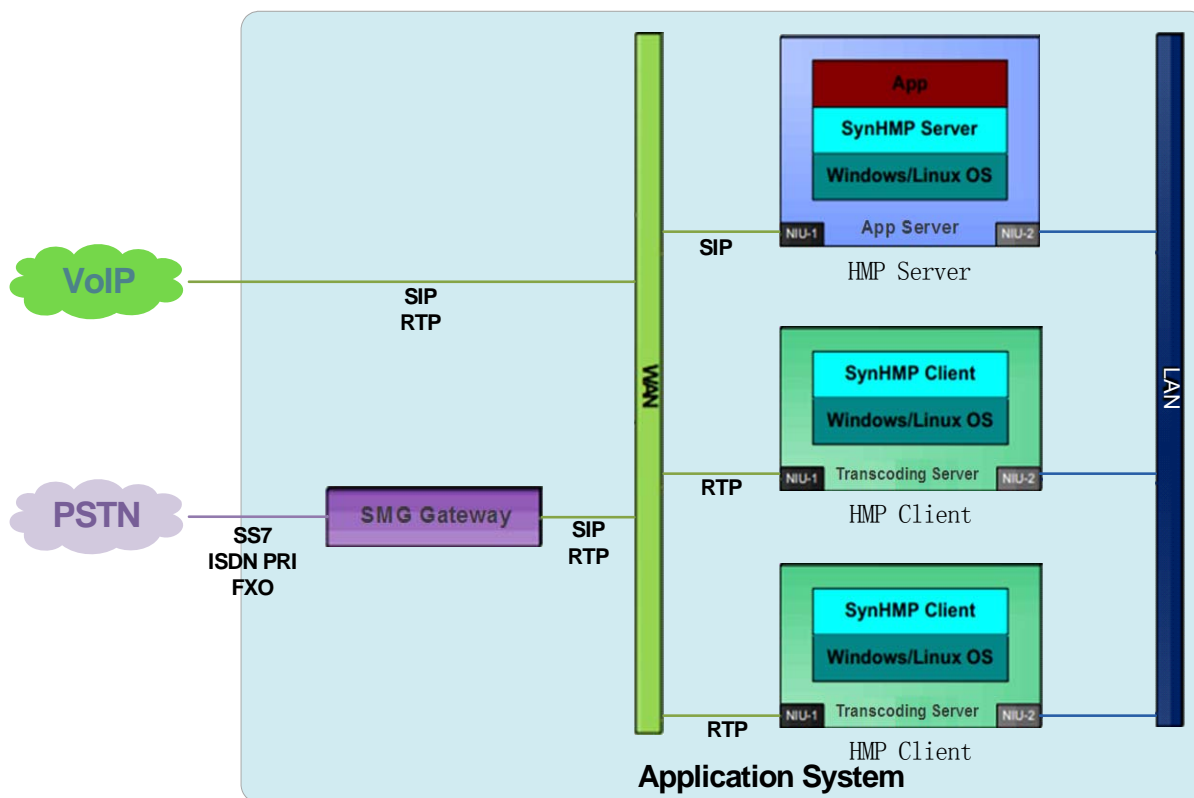
2. Characteristic Features

- **Distributed Architecture**

Thanks to the distributed architecture, the HMP Client and the HMP Server can be distributed on different hosts. The HMP Client can be connected with the HMP Server in two modes: Active and Passive. Multiple HMP Clients can be connected to an HMP server; and the channel quantity on each HMP Client can be customized. Such design effectively unties the restriction on channel amount, making capacity expansion easy.

- **Various IP CODECs Supported**

  Currently supports G.711 A-Law, G.711 μ-Law, G.729 and.AMR-NB, etc.

Typical Application

Supported SIP Standards and Applications

(1) Supported SIP Standards

- IETF RFC 3261 (SIP: Session Initiation Protocol)

- IETF RFC 2327 (SDP–Session Description Protocol)

- IETF RFC 3550 and 3551 (RTP/RTCP)

- IETF RFC 2833 (DTMF)

(2) Characteristics of SIP Protocol Stack

- Allows signaling messages to be transmitted over UDP

- Supports Digest Authentication

- Supports the call progress of INVITE and reINVITE

- Supports the REFER message

- Supports the REGISTER message and the authentification process

- Supports the communication with SIP server

- Supports the INFO message

- Supports call hold

- Intelligent analytical mechanism for URL Scheme

- Supports the rPort setting in the VIA field (for NAT/FW traversal)

- Supports DTMF transmission and reception by the method of SIP-INFO or out-of-band (RFC2833)

- Internal multi-threading mechanism

- Supports the heartbeat mechanism based on UDP packets

Physical Environment

Software/Hardware	Requirement
OS	Windows2000 Professional/Server, Windows XP Professional (SP3), Windows7(32-bit/64-bit), Windows2003 server (32-bit/64-bit), Window2008 server(32-bit/64-bit), Linux (Centos, Debian…)
Hardware	CPU: 8-core 3.0GHz or higher Memory: 4G or more Network card: 2 Kilomega-Ethernets or more

Purchasing Guide

The HMP Series products provide a complete range of features to meet all requirements.

➢ **Model Description**

Model	Channel Quantity
HMP	Designated by user

Technical/sales Support

Headquarters

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TIPS

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