



Synway ATP Series

SHT-2B/USB

SHT-4B/USB

USB Recording Box

Product Introduction



Synway Information Engineering Co., Ltd

www.synway.net

➤ Functions

- High-impedance passive monitoring
- Start/stop recording using multiple methods
- Activity/silence detection
- Call progress monitoring
- Supports simultaneous full-duplex recording and playback on 4 channels, each with a different format (CCITT A/μ-Law 64kbps, IMA ADPCM 32kbps or Windows WAV)
- Calling party info (Caller_Id) detection, DTMF and FSK support
- Programmable tone analyzer detects all kinds of tones
- Automatic Gain Control (AGC) support in recording/playback operation
- Automatically checks the USB recording box to determine the number and type of installed modules
- Supports most telephone signaling standards (analog)
- All-in-one setup (recording/playing/signaling)

➤ Characteristic Features

- **USB1.1 Bus Support**

Includes USB1.1 bus; supports hot-swap and PNP (plug and play) features; provides portable application and easy installation without the need for any external power supply.
- **High-impedance Recording**

Simply achieved by parallel connection. Very high input impedance rules out interruption on transmission of monitored signals.
- **Module Configurable**

4 on-channel modules can be freely arranged in pairs or groups for various complex, multi-functional applications, such as call center and recording functions available on a single USB recording box.
- **Available Analog Phone Line Jack**

Adopts the RJ11 jack to connect the phone line directly, eliminating the need for extra junction boxes, making connection easy and malfunctions rare.

- **Available Telephone Handset Jack**

The telephone handset jack can directly connect with the handset of either a digital telephone or an analog telephone, enabling a complete handset recording.

- **Available Microphone Jack**

Connects the microphone to the microphone jack to record any voice that enters the microphone.

- **Available Audio Output Jack**

Equipped with an audio amplifier to directly drive the speaker of the headset or handset.

- **Programmable Tone Detector**

Detects single or dual tones at any frequency, offering facility for use with a variety of PBXes and key telephone systems.

- **Realtime Analog Line Voltage Detection**

The recording is started immediately once the pickup behavior is detected.

- **Various CODECs Support**

Offers a large selection of voice CODECs, including G711 A-Law, μ -Law, Linear PCM, IMA-ADPCM, MP3 and VOX.

- **Supports WAV File**

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

- **Hardware Serial Number & Authorization Code Identification Circuit**

Each recording box has a unique hardware serial number and an authorization code identification circuit, 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. Each system supports up to 2048 channels. All features are available via simple function calls on the driver platform, without having to understand complex call procedures.

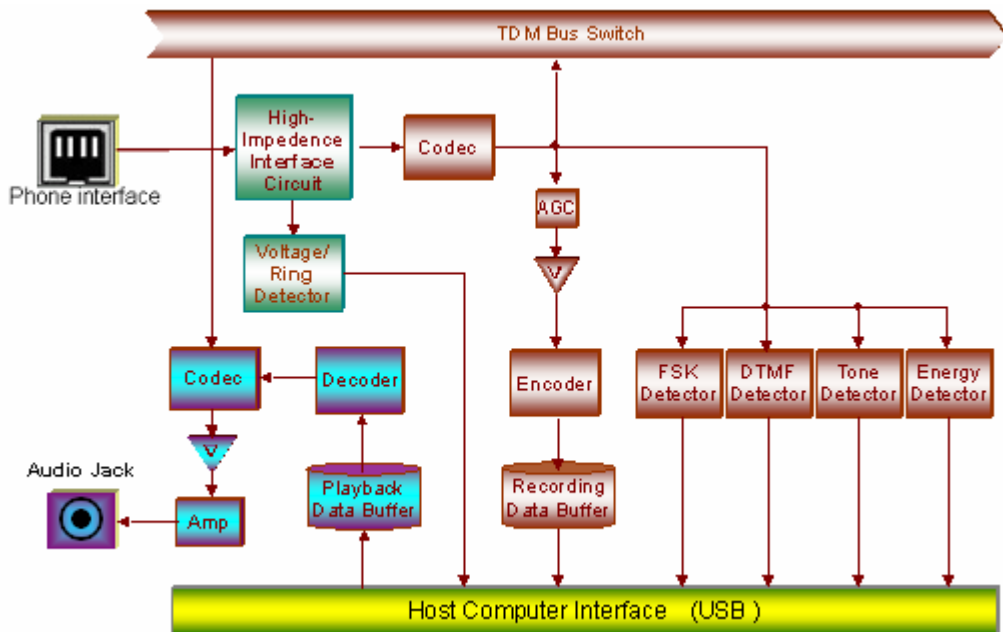
Support More Application Environments

The freely configured dual-channel modules enable the USB recording box to be widely used in various application environments. The SynCTI driver development platform which is independently developed by Synway supports up to 2048 channels. The tapping point for the ATP Series USB recording box can be set flexibly on the communication line between Central Office Terminal (COT) and PBX, COT and telephones, PBX and telephones, etc. allows monitoring of any analog tone signal.

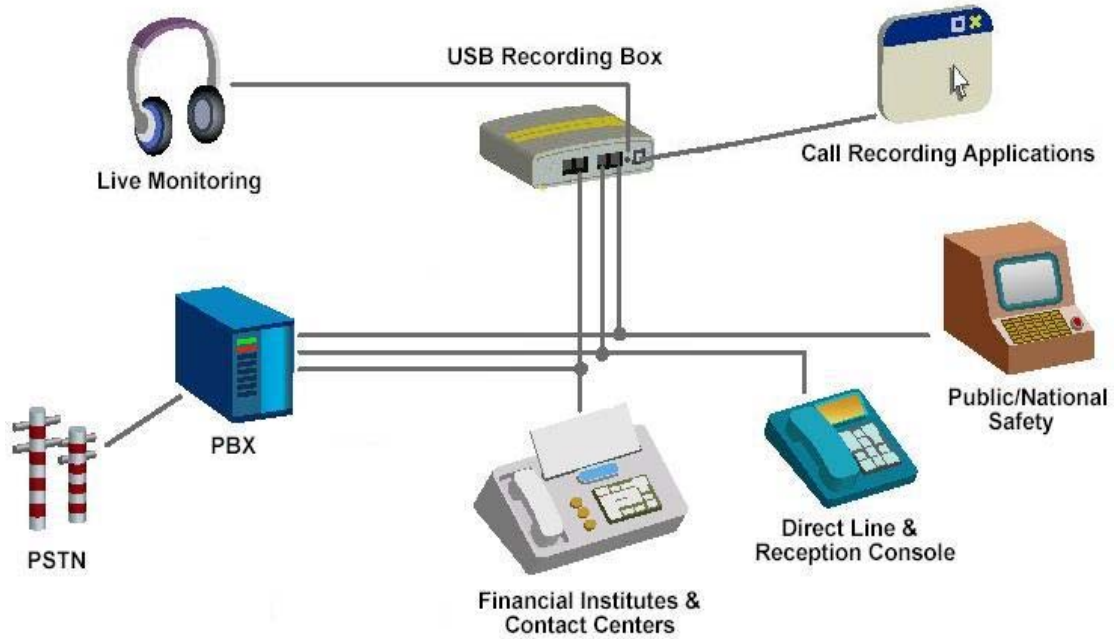
Support Worldwide Analog Phone Applications

Because the ATP Series USB recording box includes the programmable tone analyzer, and is able to detect the voltage, the polarity and the rings of the analog phone line, it surely provides a strong technology background for the internationalization of your company and your products.

➤ Operation Principle



➤ Typical Application



➤ Technical Specifications

Dimensions

170 x 130 x 20mm³

Weight

≈ 200g

Environment

Operating temperature: 0 °C—55 °C

Storage temperature: -20 °C—85 °C

Humidity: 8%—80%, non-condensing

Input/output Interface

Headset jack: One ϕ 3.5 stereo jack

Microphone jack: One ϕ 3.5 stereo jack

Telephone line jack: Four 4-pin RJ11 connectors

Handset jack: One 4-pin RJ11 connector

USB jack: One USB1.1 standard interface

Audio Specifications

CODEC: CCIIT A/ μ -Law 64kbps,

IMA ADPCM 32kbp

Audio output power: \geq 50mW

Distortion: \leq 3%

Frequency response: 300-3400Hz (\pm 3dB)

Signal-to-noise ratio: \geq 38dB

Echo suppression: \geq 40dB

Maximum System Capacity

Up to 8 USB recording boxes concurrently per system; up to 4 channels per box

Audio Encoding & Decoding

16Bit PCM 128kbps

8Bit PCM 64kbps

A-Law 64kbps

μ -Law 64kbps

VOX 32kbps

ADPCM 32kbps

GSM 13.6kbps

MP3 8kbps

Impedance

Input impedance: \geq 1M Ω /500VDC;

\geq 10k Ω /1000V AC

Insulation resistance for PC isolation from telephone line: \geq 2M Ω /500V DC

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

Power Requirements

+5V DC: \leq 400mA

Power: \leq 2.1W

Safety

Lightning resistance: Level 4

Safety certificates: FCC;CE

➤ Purchasing Guide

The Synway ATP Series USB recording box provides a complete range of features to meet all requirements.

➤ Model Description

Model	PC Bus	Voice Channels	Voltage Detection	Audio Jack	Conferencing	TDM	Faxing
SHT-2B/USB	USB	2	√	√	√	N/A	N/A
SHT-4B/USB	USB	4	√	√	√	N/A	N/A

➤ Technical/sales Support

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TIPS

- ☒ All the content and data herein have been scrupulously checked. However, we do not guarantee the absence of errors.**
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 - ☒ Our company reserves the right to modify this document without prior notice and the right for final explanation.**
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