Synway DST Series

SHR-16DA-CT/PCI

Digital Station Tap Board

Product Introduction

Synway Information Engineering Co., Ltd

www.synway.net

Functions

- High-impedance recording of digital phone lines through parallel connection
- A variety of ways to start/stop recording
- Supports simultaneous recording on 16 channels, each with a different format
- Supports independent-recording of incoming, outgoing and mixed-recording modes
- ANI and DNIS support
- Synchronous acquisition of the information displayed on digital phones during recording
- Detects all modes of keying supported by user phones
- Activity/silence detection
- Automatic Gain Control (AGC) support in recording operation
- Call progress monitoring
- Automatically checks board to see if modules are correctly inserted and to determine the number of modules on the board
- Supports line-fault detection for digital station tap boards and digital phones

Characteristic Features

- **PCI 2.1 Bus Support**

  Includes PCI 2.1 bus with burst data transmission rate up to 133 MB/s; PNP (plug and play) feature eliminates the need for jumper leads

- **Modularized Design**

  This board designed in modularized structure can be configured in flexible ways. Each board can be fitted with up to 4 recording modules, and each module supports recording of up to 4 digital phone lines. Now it is widely used in various systems.

- **Available RJ45 Jack**

  A single board has four 8-pin RJ45 jacks, each of which can be converted into four 2-pin RJ11 jacks, eliminating the need for extra junction boxes, making connection easy and malfunctions rare.

- **Fits Modules via Inter-plane Connectors**

The use of high-precision, streamlined, inter-plane connectors highlights the characteristic compact and highly-reliable advantage of Synway's all-in-one boards.

- **1 to 16 Port Hi-Z Monitoring of Digital Lines**

  This board connects to monitored phone lines via high-impedance and parallel connection of 2 or 4-lead lines, with the access points flexibly positioned on the communication line between a digital PBX and some digital phones. In such way, it is widely used for recording of different digital PBXes as well as various digital phones.

- **Programmable Tone Detector**

  Detects busy, ringback and fax answering tones, offering facility for use with a variety of switches and enterprise phone systems

- **High-impedance Recording**

  The recording impedance is up to 600ΩAC, ruling out interruption on transmission of monitored signals.

- **Instantly-upgradeable Hardware Circuit**

  Using instantly-upgradeable hardware circuits, the board can support different models of PBXes and digital phones simply through software reconfiguration, i.e. there is no need to replace any hardware components. So far a dozen of mainstream PBXes, such as Alcatel, Avaya, NEC, Siemens, Nortel, are supported.

- **Voice Processing & Signaling Analysis**

  A single board is capable of processing voices and handling call-signaling analysis, and can constitute a recording system by itself without the need for supplementary boards or external devices.

- **Various CODECs Support**

  Offers a large selection of voice CODECs, including hardware-based A-law (G.711), μ-law and IMA-ADPCM, software-based 16-bit linear PCM and MP3.

- **Supports WAV File**

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

- **Audio Output Interface**

  The first channel on the board equipped with a tone amplifier circuit and an output interface, can directly connect to the headset or sound box, play back speech files and monitor a specified channel in real time via a simple function call.

- **TDM Capability**

  Includes H.100 bus, facilitating smooth connectivity to third-party boards with H.100 bus for the transfer of acquired voice signals to other devices

- **Unique Hardware Serial Number**

  Each board has a unique hardware serial number written in the firmware to distinguish itself from other boards in a multi-board system. The number is available via an easy function call with applications.

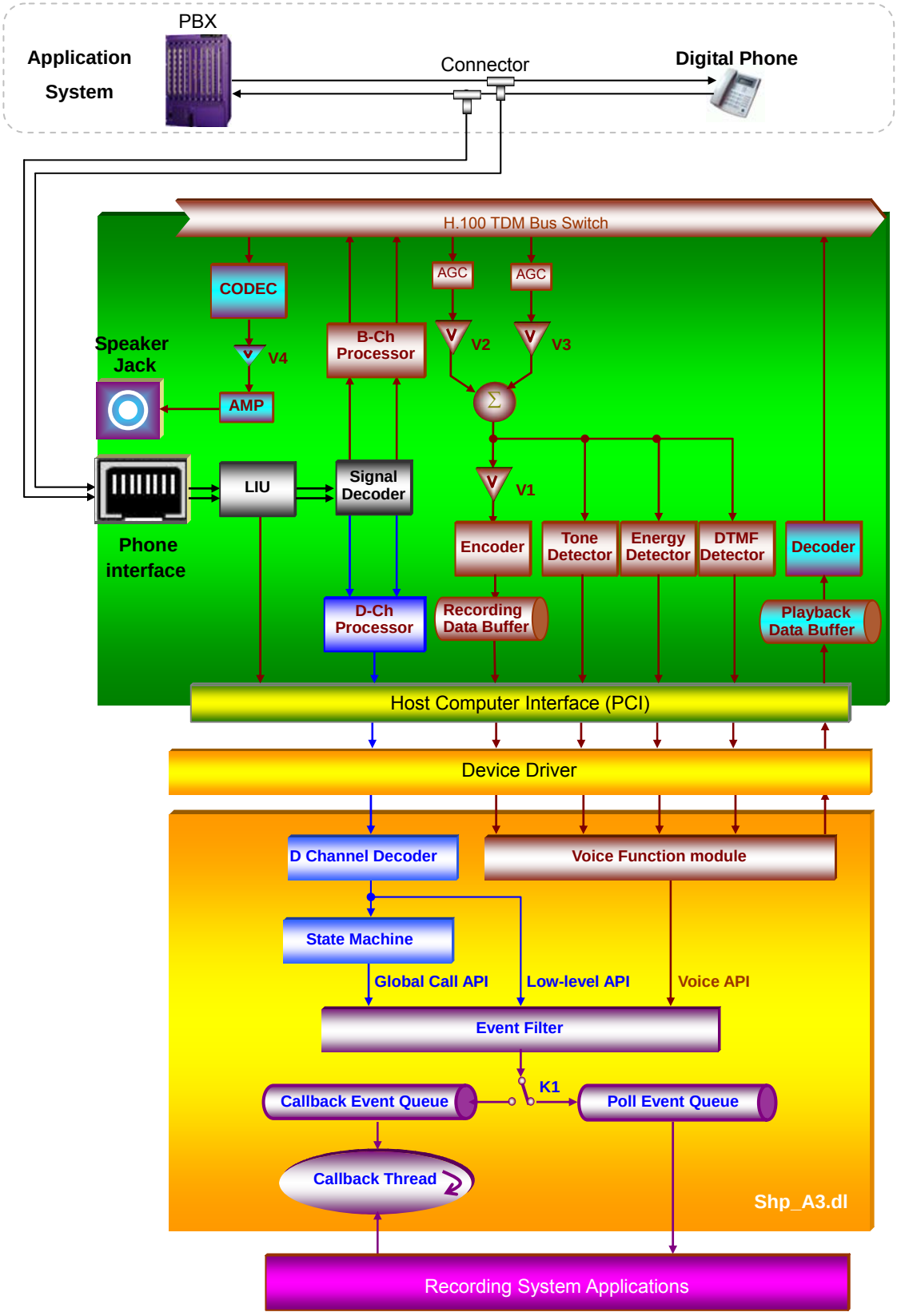
- **Authorized Code Identification Circuit**

  The on-board authorized code identification circuit is designed for software safety. Users can apply to our company for the authorized 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. Functions such as the detection and analysis of rings, tones and Caller IDs, are available via simple function calls on the driver platform, without having to understand complex call procedures.

Operation Principle & Typical Application



Technical Specifications

Dimensions

310×115mm^2 (excluding L-bracket)

Weight

≈ 400g (including 4 recording modules)

Environment

Operating temperature: 0℃—55℃

Storage temperature: -20℃—85℃

Humidity: 8%— 90% non-condensing

Storage humidity: 8%— 90% non-condensing

Input/output Interface

Headset jack: One φ3.5 stereo jack

Telephone line jack: Four 8-pin RJ45 jacks

Audio Specifications

CODEC: CCITT A/μ-Law 64kbps,

IMA ADPCM 32kbps

Output power: ≥50mW

Distortion: ≤2%

Frequency response: 300-3400Hz(±3dB)

Signal-to-noise ratio: ≥38dB

Echo suppression: ≥40dB

Maximum System Capacity

Up to 10 boards concurrently per system; up to 16 channels per board

Maximum Length of Telephone Lines

Less than 600 meters between digital phone and PBX

Less than 6 meters between line access point and digital station tap board

Power Requirements

Maximum power consumption: ≤12W

Impedance

Input impedance: ≥600Ω AC

Insulation resistance for PC isolation from telephone line: ≥2MΩ/500V DC

Audio Encoding & Decoding

16Bit PCM	*128kbps*
8Bit PCM	*64kbps*
A-Law	*64kbps*
μ-Law	*64kbps*
VOX	*32kbps*
ADPCM	*32kbps*
GSM	*13.6kbps*
MP3	*8kbps*
GC8	*8kbps*

Sampling Rate

8kHz

Safety

Lightning resistance: Level 4

Purchasing Guide

The Synway DST Series SHR-16DA-CT/PCI board provides a complete range of features to meet all requirements.

➢ **Model Description**

Model	PC Bus	Voice Channels	Audio Jack	Conferencing	CT Bus
SHR-16DA-CT/PCI	PCI	16	√	√	H.100

Technical/sales Support

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

Technical Support

Tel: +86-571-88864579

Mobile: +86-13735549651

Email: techsupport@sanhuid.com

Email: techsupport@synway.net

MSN: scycindy_sh@hotmail.com

Sales Department

Tel: +86-571-88860561

Tel: +86-571-88864579

Fax: +86-571-88850923

Email: sales@synway.net

TIPS

- **All the content and data herein have been scrupulously checked. However, we do not guarantee the absence of errors.**
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