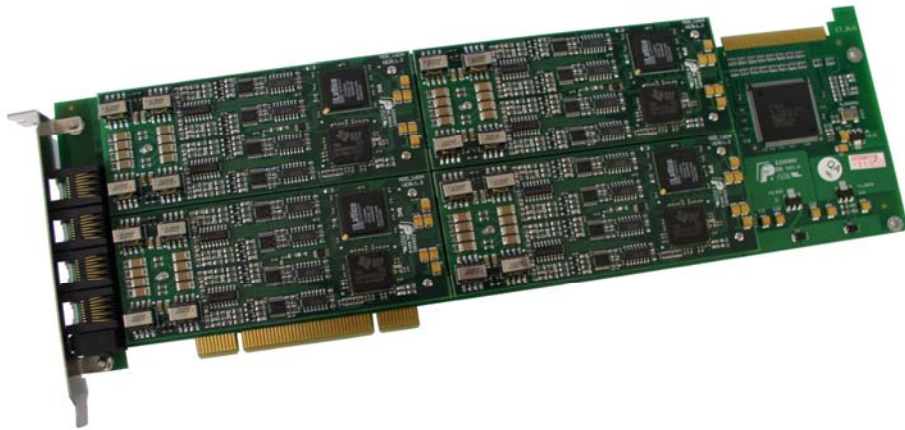




**SHR-16DA-CT/PCI**

# Product Introduction



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## ➤ 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 RJ48C Jack**

A single board has four 8-pin RJ48C 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**

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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

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- **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.

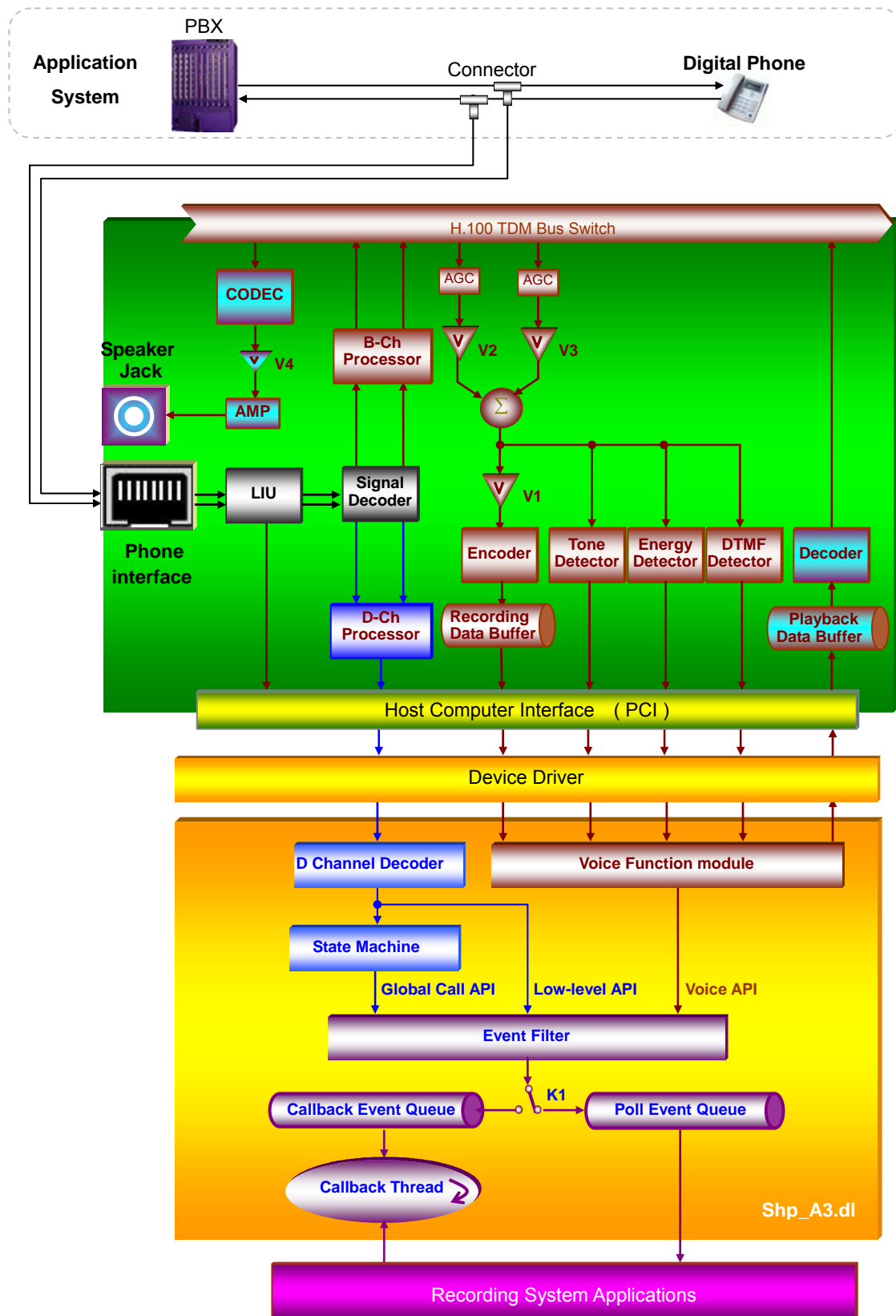
- **Authorized Code Identification Circuit**

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



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## ► Technical Specifications

### Dimensions

310×115mm<sup>2</sup> (excluding L-bracket)

### Weight

≈ 400g (including 4 recording modules)

### Environment

Operating temperature: 0°C—55°C

Storage temperature: -20°C—85°C

Humidity: 8%— 90% non-condensing

Storage humidity: 8%— 90% non-condensing

### Input/output Interface

Headset jack: One  $\phi$ 3.5 stereo jack

Telephone line jack: Four 8-pin RJ48C jacks

### Audio Specifications

CODEC: CCITT A/ $\mu$ -Law 64kbps,

IMA ADPCM 32kbps

Output power:  $\geq$ 50mW

Distortion:  $\leq$ 2%

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

Signal-to-noise ratio:  $\geq$ 80dB

Echo suppression:  $\geq$ 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:  $\leq$ 12W

### Impedance

Input impedance:  $\geq$ 600 $\Omega$  AC

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

### Audio Encoding & Decoding

16Bit PCM 128kbps

8Bit PCM 64kbps

A-Law 64kbps

$\mu$ -Law 64kbps

VOX 32kbps

ADPCM 32kbps

GSM 13.6kbps

MP3 8kbps

GC8 8kbps

### Sampling Rate

8kHz

### Safety

Lightning resistance: Level 4

Certification: FCC; CE; CCC

## ➤ 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

#### SoftSwitch

<http://www.mycomp.co.za>

Plot 99 , Rietfontein, liprivier, 1871, Gauteng South-Africa

Tell: (27) 824666112

Fax: (27) 866880661

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## **TIPS**

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