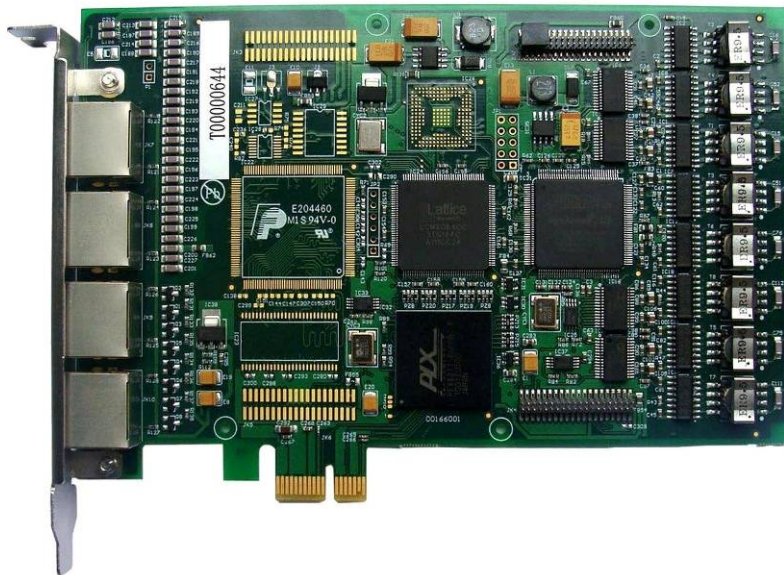




Synway PCM32 Series

PCM1280E
PCM640E
PCM32 Recording Board

Product Introduction



Synway Information Engineering Co., Ltd

www.synway.net

➤ Brief Introduction

The Synway PCM1280E and PCM640E recording boards are designed especially for PCM32 lines. The former supports voice recording concurrently on up to 128 channels while the latter supports voice recording concurrently on up to 64 channels.

➤ Functions

- A single board supports the recording of up to 4 (PCM1280E) or up to 2 (PCM640E) PCM32 lines
- Half-length board, with PCIe bus
- Supports transparent transmission and one-way input of voice signals
- Shows the synchronization status, gives the signal alarm, and offers the line indicators
- Uses RJ45 connectors
- Two input modes-- 120 Ω AC and high impedance ($\geq 1000 \Omega$ AC)—are alternative via software configuration for each PCM32 line
- Uses the on-line frame sync signals for input
- Activity/silence detection

➤ Characteristic Features

- **PCIe Bus Support**
Using the design of PCIe X1, supports PCIe X1, X2, X4, X8 and X16 slots.
- **DMA Transfer Support**
The DMA transfer of recording data does not cost any of host CPU resources, which fully enlarges the recording capacity of a single board.
- **Available RJ45 Connector with Yellow/Green Bi-colour LED**
This board adopts the widely used RJ45 connector, making connection easy and malfunctions rare. With the different ranges of the bi-color LED, it can indicate various line states.
- **Recording of On-line Source Code Stream**
When using the board, any problem found on the monitored line can be located and settled as soon as possible via remote debugging with the cooperation of users.
- **High-impedance Recording**
The recording impedance is over 1K Ω AC, ruling out interruption on transmission of monitored signals.
- **Instantly-upgradeable Hardware Circuit**
Using instantly-upgradeable hardware circuits helps the debugging for abnormal situations.
- **Unique Hardware Serial Number**

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

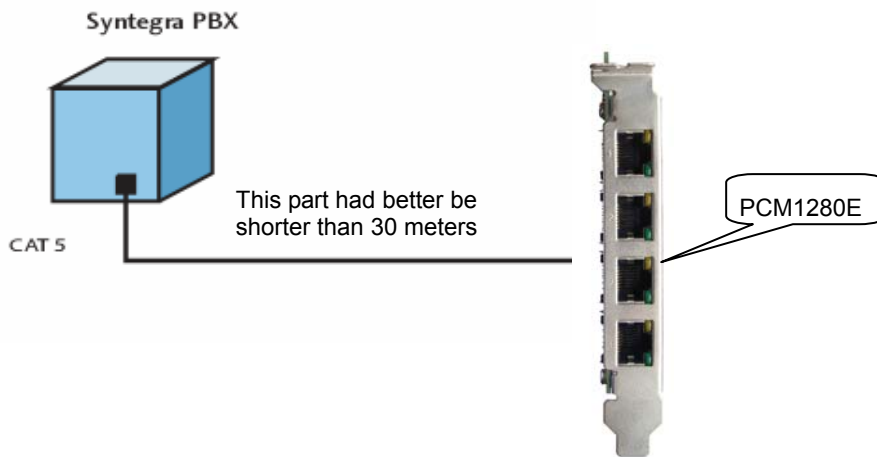
- **Authorization Code Identification Circuit**

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. Each system supports up to 128 or 64 channels.

➤ Typical Application



➤ Technical Specifications

Dimensions

160×111mm² (excluding L-bracket)

Weight

≈ 115g

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

Input: Four RJ45(PCM1280E)

Two RJ45(PCM640E)

Recording Specifications

Recording Format: CCITT A/ μ -Law 64kbps (original line format, unconverted)

Maximum System Capacity

Up to 10 PCM1280E boards concurrently per system; up to 128 channels per recording board

Power Requirements

+3.3V DC: 1200mA

+12V DC: 150mA

Maximum power consumption: ≤6.8W (PC power supply only)

Impedance

Input impedance: 120 Ω AC or ≥1000 Ω AC

Insulation resistance for PC isolation from telephone line: ≥20M Ω /500V DC

➤ Purchasing Guide

The Synway PCM32 series recording boards provide a complete range of features to meet all requirements.

➤ Board Model

Model	PC Bus	Voice Channels	Voice Transmission	Faxing	Board TDM	Between-board TDM
PCM1280E	PCIe	128	Transparent	—	—	—
PCM640E	PCIe	64	Transparent	—	—	—

➤ 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.
 -  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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