

## Synway Asterisk Transcoder Card - 50 Channels (CDC-1522A)



Product Name: Synway Asterisk Transcoder Card - 50 Channels (CDC-1522A)

Manufacturer: Synway

Model Number: CDC-1522A

Availability: In Stock

Synway Asterisk Transcoder Card - 50 Channels

Synway Asterisk Codec cards provide DSP resources to your Asterisk PBX. DSP is used by many major PBX manufacturers (eg. Mitel, Avaya etc) to take processing load off the main CPU, now your Asterisk PBX applications can be as scalable and robust as theirs.

Translations between G.729 A -Law, G.729 Mu-Law and G.711 are extremely processor hungry, Synway Codec cards take this strain of the system CPU and eliminates backplane bandwidth limitations.

Synway CDC cards use one PCI -2.2 compliant slot, plug and play enabled, and is a half length card. It uses 32 bit bus mastered DMA data exchanges

DSP-dedicated transcoding helps you build robust IP or Asterisk-based systems to handle high traffic calling as well as strategic expansion without constrains of host processor.

• ½ Bi-directional transcoding between G.729A and G.711  
• ½ 50, 100 and 150 ports available for high-density transcoding

The CDC series is DSP-enabled hardware with dedicated DSP resources for transcoding. Combined with the CDC series, Asterisk, any other open sources or host-based IP platform can handle complex codec translation between G.729A and G.711 (A-law or  $\mu$ -law) for the purposes of call origination or termination in the hybrid VoIP and TDM networks, with minimal hitting to host CPU.

Under constrain of processor capability, the CDC series leverages dedicated DSP algorithm to help you design versatile, highscalability open source solutions in complex networking environments where minimal utilization of host processor, high-traffic call processing or system expansion for higher density is required. It not only improves performances of Asterisk-based application, but also eliminates limitation of existing bandwidth. The CDC series has been considered as more cost effective and high-performance transcoding algorithm when compared with CPU's consumption for that purpose.

The PCI-2.2 compliant, half-length CDC series cards are the perfect substitute to Digium's TC400B for its cost advantages and certified DSP algorithm. For a variety of environments, each card is designed to support 50, 100 or 150 bi-directional codecs transformations and be seamlessly compatible with Synway's TEJ and FXM series.

Key features and benefits

## Synway Asterisk Transcoder Card - 50 Channels (CDC-1522A)

Seamlessly compatible with all Asterisk features

The CDC series is perfectly compatible with all Asterisk, helping Asterisk-based applications developers deliver cost-effective, feature-rich and highly accessible solutions.

PCI 2.2 Bus compliant

Includes PCI 2.2 bus with burst data transmission rate up to 132 MB/s; PNP (plug and play) feature eliminates the need for jumper leads; the universal PCI design supports 3.3V/5V PCI slot and PCI-X slot.

DMA data exchange

32-bit bus master DMA data exchanges across PCI interface at 132MB/s for minimum host processor intervention. The use of PCI-based DMA technique for data exchange minimizes utilization of the host CPU.

Transcoding capability

The dedicated DSPs process the codec translations among G.711 A-Law,  $\mu$ -Law and G.729A, which minimizes consumption of host CPU in all demanding situations and guarantees high scalability when system expansion is required. Each can handle 50, 100, or 150 bi-directional decompression (A-law to G.729A) or compression (G.729A to A-law).

Technical Specifications

Product models

- 1/2 CDC-1522A/PCI, 50-channel bi-directional transcoding
- 1/2 CDC-2522A/PCI, 100-channel bi-directional transcoding
- 1/2 CDC-3522A/PCI, 150-channel bi-directional transcoding

Physical characteristics

- 1/2 Dimensions: 120x95mm<sup>2</sup> (excluding L-bracket)
- 1/2 Weight: approx. 100g

Environment

- 1/2 Operating temperature: 0°C—55°C
- 1/2 Storage temperature: -20°C—85°C
- 1/2 Humidity: 8%—90% non-condensing
- 1/2 Storage humidity: 8%—90% non-condensing

## Synway Asterisk Transcoder Card - 50 Channels (CDC-1522A)

### Audio Specifications

- CODEC: CCITT A/ $\mu$ -Law 64kbps
- Distortion:  $\approx$ 3%
- Frequency response: 300-3400Hz ( $\pm$ 3dB)
- Signal-to-noise ratio:  $\approx$ 38dB
- Echo suppression:  $\approx$ 40dB

### Power Requirements

Maximum power consumption:  $\approx$ 8W

### Audio Decoding

From G.729A to A-Law,  $\mu$ -Law

### Audio Encoding

From A-Law,  $\mu$ -Law to G.729A

### Audio CODEC

- A-Law 64kbps
- $\mu$ -Law 64kbps
- G.729A 8kbps
- Sampling Rate: 8kHz
- Maximum power consumption:  $\approx$ 8W

### Certification

- CE, FCC Part 15 Class A and Class B , EN 55022, EN 55044,
- CISPR 22, CISPR 24

### Warranty

6-years warranty, refundable 2-month return, lifetime maintenance, free support

### Production Quality

ISO 9001:2000

### Environment standard

- RoHS
- Safety: Lightning resistance: Level 4

**Synway Asterisk Transcoder Card - 50 Channels (CDC-1522A)**

**Price: Â£678.00**

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