

Session Initiation Protocol (SIP) Voice-over-IP (VoIP) Adaptor

CXP9168, CX82100 and CX20437

The VoIP adaptor is one of Conexant's innovative semiconductor solutions driving information and home entertainment networks worldwide. With the SIP VoIP Adaptor, you can turn your traditional telephone into an IP device. The adaptor is the key enabler that facilitates an analog phone (handset or wireless) connection to a digital voice phone service. Set-up only takes minutes requiring no technical expertise or wiring in the walls.

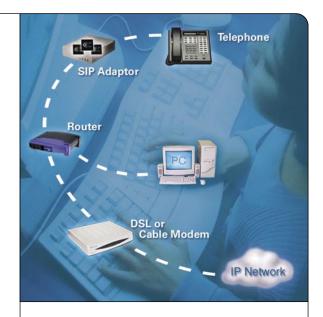
The SIP VoIP adaptor is capable of delivering a cost-effective solution for commercial and residential applications worldwide. Consisting of a voice coprocessor, home network processor and a voice codec, the adaptor converts your voice from an analog signal to a digital signal which is then sent out over a high speed Internet connection. Supporting one voice port and one 10/100BaseT Ethernet port, the adaptor can make use of existing Ethernet LANs in addition to DSL or cable broadband modems. Connect a traditional telephone and a FAX machine to your computer's VoIP network; or deploy a second-line service to take advantage of emerging telephony applications.

The CX82100 network processor provides a platform on which voice control functions and network or communications protocols are implemented.

The CXP9168 voice coprocessor compresses and decompresses one channel of packet voice from a telephone line or handset, and interfaces to the CX82100 network processor over a parallel interface bus.

The CX20437 voice codec is an integrated Analog (IA) circuit providing digital-to-analog and analog-to-digital conversion, and connects to the analog telephone or FAX machine through a Subscriber Line Interface Circuit (SLIC).

This combination of devices enables customers to connect to enterprise networks, small-office environments or the emerging VoIP managed voice services and local services market.



Distinguishing Features

- DTMF Detection and Generation
- Echo cancelation
- · Flexible configuration
- Registration
- Multiple codec support G.711 and G.729
- Authentification
- Call control features such as Call Waiting, Call Transfer, Call Forwarding, Caller ID and Call Management

Part Number CXP9168, CX82100, CX20437

Description Voice-over-IP (VOIP) Adapter

Simplified Interface Diagram

CXP9168, CX82100, and CX20437 Features

- Fully integrated device including memory
- G.711 and G.729 speech codecs
- Asynchronous Speech Codec Support
- Echo Cancellation (G.165, G.168 Compliant)
- DTMF Detection and Generation (Dial Tone, Call Waiting, Busy, etc.)
- Dynamic Jitter Buffer
- Bell 202 and V.23 Caller ID
- Packet Loss Concealment
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Automatic Fax/Modem Detection and Pass-Through

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