Talk Voice 8LV

8-Port DSP-based Analog Interface Voice Board (TAPI)

VOICE

VoIP

TAPI

Features

- Eight independent voice processing ports supporting low-to medium-density voice systems in a single PC (PCI Bus)
- Two extra audio jacks allow voice monitoring and auxiliary audio input
- μ-law voice coding with selectable data rates 32 Kb/s or 64 Kb/s on a channel-by-channel basis
- Configure multiple boards in a single PC for easy and cost-effective system expansion, capable of scaling from 8 to 40 ports
- Caller ID detection, supports both FSK as well as DTMF
- Full duplex voice channels for VoIP applications (Rev. C1 or after with proper driver)
- Bundled with TAPI and wave drivers for Windows 2000, 2003 and Windows XP
- Optional CT32 voice and fax development kit for Windows 2000 and Windows XP
- Support LC Drop/Polarity Reversal detection
- Detailed call progress monitoring & analysis (With Diag32 setting tools)

Applications

- Interactive Voice Response (IVR)
- Automatic Call Distribution (ACD)
- Unified Messaging System (UMS)
- Unified Communication (UC) & Voice and Fax applications Deveplopment
- TAPI-compliant AA, VM and Recording applications (Many available, consult your dealers for details)

Technical Description

Configuration

The Talk Voice 8LV provides eight telephone line interface circuits for direct connection to analog loop start lines. Multiple Talk Voice boards can be installed in a single PC chassis enabling port expansion up to 40 ports per system.

Network Interface

The Talk Voice 8LV supports powerful call progress analysis, provides parameters programmable for country-specific regulation ,enhanced DTMF detection & cut-through, and PABX-specific tones detection. Quality voice recording in ADPCM, PCM or WAV formats.

Open Architecture

The Talk Voice 8LV boards share a common driver architecture with other Talk Voice boards, offering users and developers both, maximum flexibility and scalability. All Talk Voice products support standard TAPI and wave drivers for Windows 2000, 2003 and Windows XP.
A CT32 voice and fax development kit is available for application developers.
(Subject to charge & OEM agreement)

Talk Voice 8LV

8-Port DSP-based Analog Interface Voice Board (TAPI)

Technical Specifications

General

- Number of ports: 8 (8LV)
- Max. boards per system: 5
- Digital signal processor: TI TMS 320VC5402 @100 MIPS

Host Interface

- Electrical: Rev. 2.1 of PCI bus specification
- Bus speed: 33 MHz maximum
- Shared memory: 256 KB dual port static memory
- Address and interrupts configured automatically by PnP BIOS or PnP OS
- Board ID: Rotary switch to uniquely identify each board

Telephone Interface

- Line interface: Loop-start
- Connectors: Four RJ-14 jacks
- Return loss: 20 dB min (300 to 3300 Hz at 600 Ohms impedance)
- Caller ID: International Caller ID capability via on-hook audio path

Audio Signal and Interface

- Audio I/O jacks: 3.5mm audio in & out jacks
- Automatic gain control (AGC)
- Silence detection: programmable (nominal: -44 dBm)
- Call progress monitoring: standard and custom frequency based

Audio Encoding

- Sample rate: 8KHz
- 32 Kbps OKI ADPCM
- 64 Kbps μ-law PCM
- 64 Kbps windows 8-bit PCM

DTMF Tone Detection

- DTMF digits: 0 to 9, *, #, A, B, C & D
- Dynamic range: -36 dBm to -3 dBm per tone
- Tone duration: 40 ms (minimum)
- Acceptable twist: 10 dB

Tone Dialing

- DTMF digits: 0 to 9, *, #, A, B, C & D
- Transmit level: normal at -6.0dBm (high), -8.0dBm (low), parameters programmable
- Frequency variation: < 1%

Bundled Drivers and Software

- Bundled with TAPI and wave drivers for Windows 2000, 2003, Windows XP
- Optional CT32 voice and fax development kit for Windows 2000 and Windows XP

Software Compatibility

- Microsoft TAPI and wave driver compliant applications
- 3rd-party applications based on CT32 voice and fax development kit (Consulting Service will be charged)

Power Requirements

- +5V @1.0A
- +12V @200mA
- -12V @200mA

Size

- 312mm (L) x 107mm (H); 12.283" (L) x 4.2" (H)

Certification

- Telephone network: FCC Part 68
- EMI: FCC Part 15, Class B
- BSMI / TAIWAN

Environment

- Operating temperature: 0 ° to 50 ° C (32° to 122 ° F)
- Storage temperature: -20 ° to 65 ° C (4° to 149 ° F)
- Humidity: 10 to 80%, non-condensing

Ordering Information

Talk Voice 8LV (Rev. C1)

8-port DSP-based PCI bus analog voice board with TAPI driver

For 4-port, or Shorter-length Application

Please use 4LV+ Talk Voice Board

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