Odin TeleSystems Inc.

Open Telecom for
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The OtxTone library is a software library that implements tone-generation and tone-detection functionality for the industry award-winning Odin Telecom frameworX (OTX) hardware. The library facilitates creation of a variety of tone logical devices which handle DTMF, MF, CPT, and generic single and dual frequency tones.

The OTX platform has provided support for DSP-based tone devices for many years. For applications where a longer latency can be tolerated, the OtxTone library now provides the option to develop host-side (i386) applications with tone support without the need for a DSP resource. The API functions that this library provides control tone devices in the same fashion as if they were created on an OTX DSP resource board, thus making application migration a breeze.

OtxTone is highly optimized for the Intel architecture and it allows the user to create a large number tone devices.

The OtxTone library can be used in applications such as: Interactive Voice Response (IVR) systems, voice auto answering systems, telephone answering devices, R1/1.5/2 signaling, and Monitoring Systems.

OtxTone Library

Feature Highlights

- Uses the standard OTX HW API.

- Highly optimized library.

- Ability to create large numbers of logical devices in one system.

- Runs on the host (i386) instead of on a DSP resource card.

- A-law and u-law compounding are supported.

- Uses burst DMA mode of Odin's OTX card.

- OTX DSP Tone logical devices are supported.

- Satisfies the requirements of ITU-T Recommendation Q.23, Q.24 and Q320.

OtxTone Library Product Brief

Hardware and Software Specifications

The library is supported by the following operating systems platforms:	• Win32, Win64 (Windows 2000/ XP/ 2003 Server/Vista)
The library can be configured to run with the following Odin TeleSystems' board combinations:	• Thor-2-ExpressCard for 2 full T1 or E1 spans. • Thor-4-ExpressCard for 4 unidirectional T1 or E1 spans. • Thor-2-PCI-Plus for 2 full T1 or E1 spans. • Thor-4-PCI-Plus for 4 full T1 or E1 spans. • Thor-8-PCI-Plus for 8 full T1 or E1 spans. • Thor-8-PCI-Plus-2.0 for 8 full T1 or E1 spans. • Thor-2-PCI-Express for 2 full T1 or E1 spans. • Thor-2-PCMCIA-PRO for 2 full T1 or E1 spans. • Thor-2-PCMCIA-EX for 2 full T1 or E1 spans. • Thor-2-PCMCIA-CST for 2 full T1 or E1 spans. • Gimle-16-PCI-Plus for 16 unidirectional E1 spans. • Gimle-16-PCI-Express for 16 unidirectional E1 spans. • Sleipnir-1-PCI-Plus for 1 full T1 or E1 spans. • Sleipnir-1-PC104-Plus for 1 full T1 or E1 spans.

Features

	• Supporting Logical Device Detectors: DTMF _DETECTOR, MF_DETECTOR, SINGLE_DETECTOR, DUAL_DETECTOR. • Supporting Logical Device Generators: DTMF_GENERATOR, MF_GENERATOR, DTMF_DIAL, MF_DIAL, SINEWAVE_GENERATOR. • Flexible configuration of OTX. • OTX standard events are supported. • OtxTone API is built on top of the OTX HW API with similar function calls. • This library satisfy the requirements of ITU-T Recommendation Q.23, Q.24 and Q.320. • Decodes received signals of standard T1 and E1 networks. • Determines submitted signal (DTMF or MF signal.)

Other features

	• Support for multiple channels (selectable timeslots of the T1/E1 span). • Low CPU load consumption per channel.

Ordering Information

Product Name / Product Category	• OtxTone library / SMA-1031-1

Contact Information

For more information on the OtxTone library, please contact:	Odin TeleSystems Inc. 800 E. Campbell Road, Suite 334 Richardson, TX 75081-1873 USA	Tel: +1-972-664-0100 Tel: 1-888-ODINTSM Fax: +1-972-664-0855 Email: info@odinTS.com Web: www.odinTS.com