Odin TeleSystems Inc.

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OtxRTP Library

The OtxRTP library is a Real-time Transport Protocol (RTP) software library that was designed for the industry's award-winning Odin Telecom frameworX (OTX) hardware API to integrate with the Real-time Transport Protocol (RTP).

The OtxRtp Library is intended for developing applications which make use of the Real Time Transport Protocol (RTP). This library is based on the RFC 1889, RFC 1890 specifications.
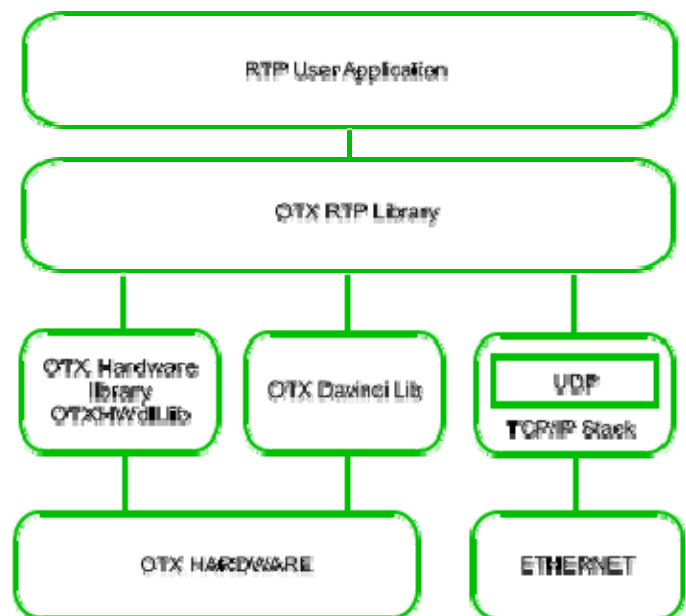
The OtxRtp Library has a wide set of functions to select tasks for coding and sending multimedia data on the basis of TCP/IP protocol.

RTP Protocol is used widely in modern VOIP/TVOIP protocols like SIP, H.323 and solutions like Soft switches or Media Transcoding gateways.

The OtxRtp Library is supported by the multiple types of Odin PCI/PCIe adapter boards and a Burst-enabled hardware.

The OtxRtp Library is supported by the Win32, Linux and Davinci systems.

Feature Highlights

- Multi-Session mode. The user can create any numbers of listening ports at the same system.

- Multi-party conference mode.

- Flexible events notifications. It is possible to let the user decide the work scenario and overcome standard processing.

- Monitoring sessions in real-time. Optional libcap integration.

- Customizable communication between high and low levels of the RTP protocol.

- All memory allocations are done at the initial phase. There are no memory allocations during runtime which facilitates management of a vast number of connections.

- Optional support for RTCP (Real-Time Transport Control Protocol).

- The package includes demos for Win32, Linux, and ARM (Davinci).

- RTP logical device for Davinci enabled boards.

Hardware and Software Specifications

The library is supported by the following operating systems platforms:	• Win32, Win64 (Windows 2000/ XP/ 2003 Server/Vista) • Linux(x86, ARM Davinci)
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-2-PCI-Express for 2 full T1 or E1 spans. • Thor-8-PCI-Plus for 8 full T1 or E1 spans. • Sleipnir-1-PCI-Plus for 1 full T1 or E1 spans. • Gimle-16-PCI-Plus for 16 unidirectional E1 spans. • Sleipnir-1-PC104-Plus for 1 full T1 or E1 spans. • Alvis-ASM.

Features

	• The library standards-based on IETF RFC 1889, RFC 1890 RTP/RTCP Transport, TCP, UDP, H.323 and SIP standard protocols. • Compatible with the SIP stack. • Compatible with the OTX SDK IPI. • Excellent opportunity to work with Burst or Alvis Davinci applications. • Support for RTP monitoring applications. • Full featured cross-platform library. • Easy integration with all relevant types of stacks (SIP, H.323 and streaming applications).

Other features

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

Ordering Information

Product Name / Product Category	• OtxRTP library / SMA-1022-1

Contact Information

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