

**Intel® Media Streaming Library for ST 2110**

**Release Notes**

***Rev. 0.5***

***October 2020***

You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps.

The products described may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Copies of documents which have an order number and are referenced in this document may be obtained by calling 1-800-548-4725 or visit [http://](http://www.intel.com/design/literature.htm) [www.intel.com/design/literature.htm](http://www.intel.com/design/literature.htm).

Intel technologies’ features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at [intel.com](http://intel.com/).

Intel, the Intel logo, and Atom, Core, and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

\*Other names and brands may be claimed as the property of others. Copyright © 2020, Intel Corporation. All rights reserved.

**Contents**

[1.0 Introduction 5](#_Toc51818507)

[1.1 Supported Features 5](#_Toc51818508)

[1.6 Supporting Documentation 6](#_Toc51818509)

[2.0 Intel® Media Streaming Library for ST 2110 release content 7](#_Toc51818510)

[3.0 Fixed Issues 8](#_Toc51818511)

[4.0 Known Issue 9](#_Toc51818512)

[5.0 Acronyms and Terms 10](#_Toc51818513)

**Revision History**

|  |  |  |
| --- | --- | --- |
| **Date** | **Revision** | **Description** |
| September 2020 | 0.5 | Initial release of the document for the first review |

# Introduction

### NOTE

This document provides a brief introduction to the Intel® Media Streaming Library for ST 2110, lists known issues, and provides available workarounds. In addition, a list of important acronyms and terminology is provided. The content of this document will be updated as applicable and updates will be reflected in the Revision History.

The Intel® Media Streaming Library for ST 2110 is an implementation of a library that uses DPDK to accelerate lossless media transfer using IP networks.  It implements the SMPTE (Society for Motion Picture and Television Engineers) ST 2110 standard for the transmission of digital video, audio, and auxiliary data over an IP network.

This library utilizes the Open Source DPDK (Data Plane Development Kit) to accelerate the transfer of packets by eliminating much of the kernel processing, interrupt handling, and data copying typically required with sending and receiving network data.

## Supported Features

* ST 2110 compliance
* Progressive video
* Interlaced video
* Interoperability tested with AJA (IPT-10G2-HDMI, IPR-10G2-HDMI)
* PTP alignment of sender and receiver
* Wide sender pacing quality
* W, N and NL pacing receiver
  1. **Supported OS**
     + Ubuntu 18.04
  2. **Supported video formats**

|  |  |
| --- | --- |
| Resolution | FPS |
| 720p | 29 |
| 720p | 50 |
| 1080p | 29 |
| 1080i | 29 |
| 1080p | 59 |
| 1080i | 59 |

* 1. **Compiler version**
     + gcc 7.4.0
  2. **NIC support**
     + **Fortville** (supported, fully validated)
       - 10GbE
       - 25GbE
       - 40GbE
     + **Columbiaville** (compatible)
       - 100GbE
  3. **Untested configurations**

Please be advised, that for the current release, configurations such as 25GbE NIC connected to a lower bandwidth network switch I.e 10 GbE, is not fully validated. Mentioned configuration could cause unexpected behavior.

## Supporting Documentation

Please see the following documents for more information:

* + - *Intel® Media Streaming Library for ST 2110 User Guide*

## 2.0 Intel® Media Streaming Library for ST 2110 release content

### Release content

### Library

### Header files:

### St\_fmt.h

### St\_api.h

### St\_pack.h

### Rxtx\_app.h

### Common\_app.h

### St\_api.h

### Sample application

### #build/app/RxTxApp

### Documentation

### User guide

### Release notes

# 4.0 Known Issues

### Table 4. Known Issues

|  |  |  |
| --- | --- | --- |
| **Internal Tracking** | **Summary** | **Priority** |
| DPDKMS-336 | Segmentation fault while using rgba signal with interlaced mode. | P2-High |
| DPDKMS-340 | EBU compliance is randomly out of sync on 40 Gbps NIC | P2-High |
| DPDKMS-332 | DUT crash while destroying Rx device | P2-High |
| DPDKMS-337 | Max sessions not created using i1080i59 format on 40 Gbps cards | P3-Medium |
| DPDKMS-331 | The TX device cannot be created a second time after it has been destroyed. | P3-Medium |