

Ittiam High Bandwidth Digital Content Protection (HDCP) Transmitter Solution

ENABLING SECURE DISTRIBUTION OF AUDIO-VIDEO CONTENT BETWEEN DEVICES OVER WIRED/WIRELESS INTERFACES

INTRODUCTION

High Bandwidth Digital Content Protection (HDCP) is a digital copy protection mechanism to authorize, pair and securely distribute audio-visual content between two or more devices over wired (HDMI, DVI, HDBASE-T and DisplayPort) or wireless (Miracast, WirelessHD and WHDI) interfaces.

Ittiam's HDCP Transmitter solution comprises an HDCP transmitter stack (library) for authenticating and pairing with a HDCP receiver and encrypting media content. It is available as a standalone component and is designed to be seamlessly integrated with media streaming solutions such as Miracast source.

SUMMARY

PRODUCT

HDCP transmitter solution comprising HDCP stack (library) for:

- Authenticating and pairing with a HDCP receiver
- Encrypting media content

HIGHLIGHTS

- Compliant with revision 2.3 of HDCP Interface Independent Adaptation Spec
- Uncompromised content security through highly optimized crypto modules
- Free of open source
- Enables highly optimized AES encryption
- Offers offline HDCP key encryption tool

AVAILABILITY

- Available as a standalone application
- Optimally integrates with Miracast source applications
- Supports PES encryption for use in in-car media transfer (supports media in Transport stream format).

PRODUCT HIGHLIGHTS

- Compliant with HDCP's Interface Independent adaptation v 2.3, while ensuring backward compatibility with receivers of version 2.0 and above
- Supports multiple simultaneous connections up to 31 receivers at a time
- Offers support for pluggable crypto H/W accelerators (if available)
- Provides highly optimized crypto S/W IP for AES-128, SHA-256, HMAC-SHA256, PKCS#1 v2.1 & Random Number Generator (AES CTR-DRBG)
- Free of open source
- Simple well defined C callable API designed to enable seamless integration

EASY PORTABILITY TO A RANGE OF PLATFORMS AND OS

arm

Linux

TEXAS INSTRUMENTS

MIPS TECHNOLOGIES

RENESAS

QNX

PRODUCT OFFERING

- HDCP transmitter stack (in the form of a static or dynamic library)
- Offline HDCP device key encryption tool for Linux
- Documentation (user guide & API document)
- Test plan and report
- Performance and memory report
- Sample application illustrating the use of HDCP transmitter stack

OPTIONAL ADD-ONS

- A tool to enable the storage of the HDCP global constant in platform specific secure storage (TrustZone)
- You can also choose our HDCP transmitter solution that we completely execute in a secure zone (Trustzone)

STANDARDS

- HDCP v2.3 – Interface Independent Adaptation
- RSA private key decryption PKCS#1 V2.1, RFC 3447
- AES-128 CTR mode based Deterministic Random Bit Generator (DRBG) – NIST SP 800-90A
- SHA256 – RFC 6234
- HMAC SHA256 – RFC 6234
- AES-128 Encryption/Decryption – FIPS 197

TARGET USER CASES

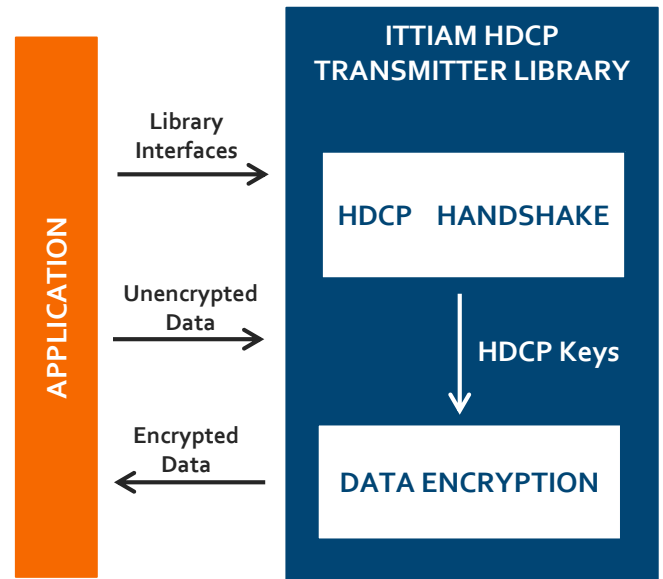


Automotive Head Units to Rear Seat Displays



Smartphones to TV Screens

Ittiam HDCP Transmitter Implementation



READ OUR BLOG



How we enable effective HDCP implementation with or without a TrustZone.

For more information, explore our [Automotive Infotainment Solutions](#) or contact us at mkt@ittiam.com

ABOUT ITTIAM

Ittiam Systems is a trusted solutions provider to world leaders in multimedia, enabling next generation video experiences through its complete suite of intelligent video technologies and solutions. Backed by its proven video expertise and insights, Ittiam's products deliver real intelligence to solve its customers' most complex technology challenges, empowering them to deliver high performance, efficient and reliable video products in rapid time. Ittiam's solutions are at the heart of millions of lifestyle products that drive mobility, content access, networking and sharing.

CONTACT

AMERICAS

Bob Lee
Senior Director
+1-847-477-2411
bob.lee@ittiam.com

Dirk Peters
SVP, Business
Development
+1-408-850-7244
dirk.peters@ittiam.com

EUROPE

Osiris
+33 6 21 40 36 54
Marc_guillaumet@ittiam.com

ASIA
Chaucer Kuo
GM, Sales & Marketing
+86-1391-037-0450
chaucer.kuo@ittiam.com

JAPAN

Kazuyoshi Yui
Manager, Business Development
+81-50-3632-6801
kazuyoshi.yui@ittiam.com

KOREA

YJ Kim
Manager, Business Development
+82-10-3754-6431
yjkim@ittiam.com