

High definition, low bit-rate video decoders

Range of devices support all next generation format and applications

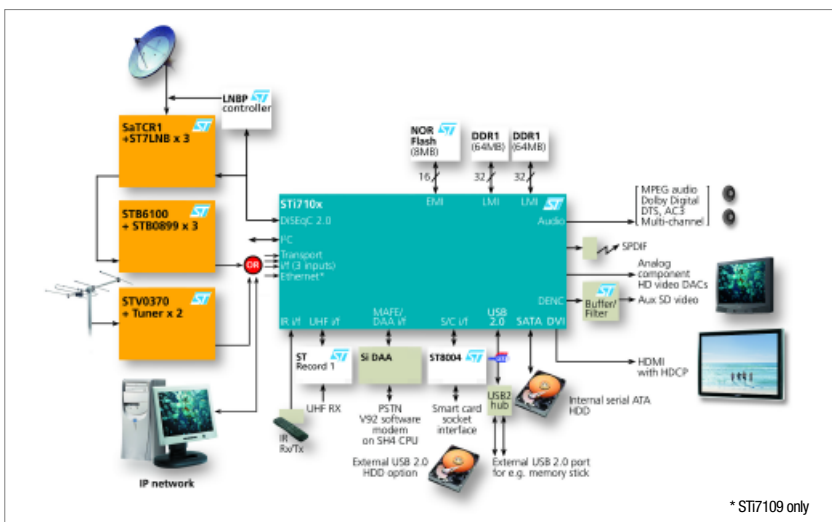


STi710x: ST offers a cost-effective solution for all low bit-rate applications

Demonstrating its continued leadership in set-top box ICs, **STMicroelectronics** introduces the STi710x range of fully-integrated, high definition video decoders, targeting automotive and consumer, cable, satellite, terrestrial and IP set-top boxes, integrated digital TV and DVD applications.

Connectivity features within the STi710x range ensure it can be used across an entire entertainment network, being equally at home in client, server and mobile devices. Content is protected through embedded DES, AES, DVB and ICAM descramblers.

The STi7109 also supports digital rights management through Windows DRM 10 and Secure Video Processor (SVP) standards.



High definition set-top box using the STi710x

Features

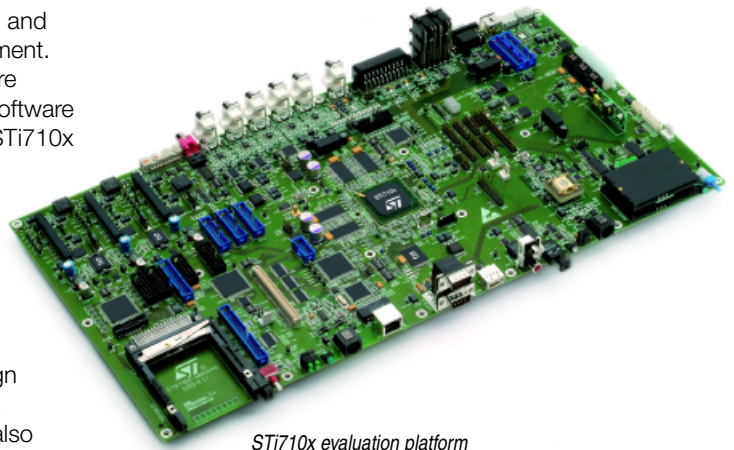
- 266MHz SH4-202 CPU core
 - Linux and WindowsCE capable
- Transport stream merger and router
- Advanced video decoder
 - H.264/AVC HP@L4 and MPEG2 MP@HL
 - Microsoft VC1*, WMV9*
 - Supports DVB and DirecTV® streams
- Advanced security
 - Integrated DES, DVB, ICAM, Multi2, AES descramblers
 - NDS RASP compliant
 - SVP compliant*
 - Windows DRM support*
- DVI and HDMI output
- SPDIF output
- Dual PAL/NTSC/SECAM encoders
- Programmable audio decoder
 - MPEG1 I/II, MP3,
 - Dolby® Digital AAC LC
 - WMA/WMA Pro
 - DTS, AC3
- Connectivity solutions
 - USB 2.0 host controller
 - 100BT Ethernet controller*
 - Serial ATA interface

Software development and evaluation platform

ST provides a comprehensive suite of hardware and software tools to enable rapid product development. Complete schematics of the reference design are available together with source code for STAPI software drivers. Moreover, pin compatibility across the STi710x range ensures that today's hardware designs can be re-used with minimal design effort.

STi710x-Ref

The STi710x-Ref evaluation system provides a near production ready hardware reference design with support for satellite, terrestrial and cable demodulators. An integrated suite of drivers is also supplied with applications that perform AVC video and audio decode, along with channel change providing an on-screen display.



STi710x evaluation platform

* STi7109 only



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Full product information at www.st.com

Order code: FL710X1106



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