Single-chip HD satellite solutions

The 65 nm STi7111 decoder fuels HD conversion with two integrated demodulators

STi7111: ST offers a cost-effective solution for HD DVS-S and DVB-S2 satellite set-top boxes

Demonstrating its continued leadership in set-top box ICs, **STMicroelectronics** introduces the STi7111, targeting high-definition satellite set-top box applications.

The STi7111 integrates DVB-S2 and DVB-S demodulators with an HD H.264/VC1/MPEG-2 video decoder into a single integrated circuit, to provide a cost-effective solution for high-definition satellite set-top boxes.

The STi7111 meets the requirements of all major satellite operators throughout the world and allows OEMs to target the high-volume market for consumers upgrading to high-definition services. Innovative power-saving techniques provide further benefits by reducing the energy requirements of the final set-top box.

Key features

- DVB-S2, DVB-S/DSS demodulators

- HD/SD, H.264, Microsoft VC-1 and MPEG-2 video decoder
- Low power consumption
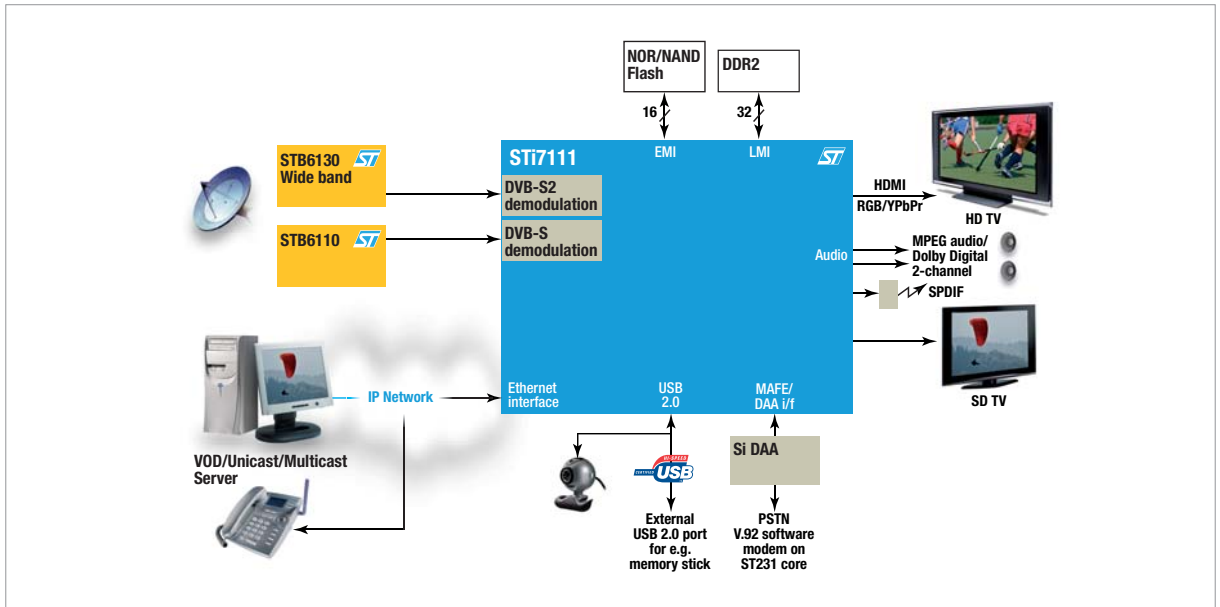- High performance 450 MHz ST40-300 CPU

- PCI, USB 2.0, Ethernet interfaces
- Unified 32-bit DDR2 memory interface
- HDMI/HDCP with 1080p60 support
- Advanced security and DRM:
  SVP and Windows Media® DRM
- V.92 embedded modem, CPU-free, with silicon DAA interface

Key benefits

- Reduced BOM and board area with associated cost savings
- Supports all industry standard video formats

- Reduced cost of ownership for consumers
- Easily runs demanding STB middlewares and applications
- Support for hybrid IP-STB and home network client
- Cost-optimized memory support
- High quality progressive output to HDTV
- Meets requirements of all major satellite operators world-wide
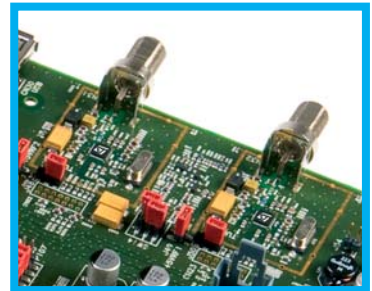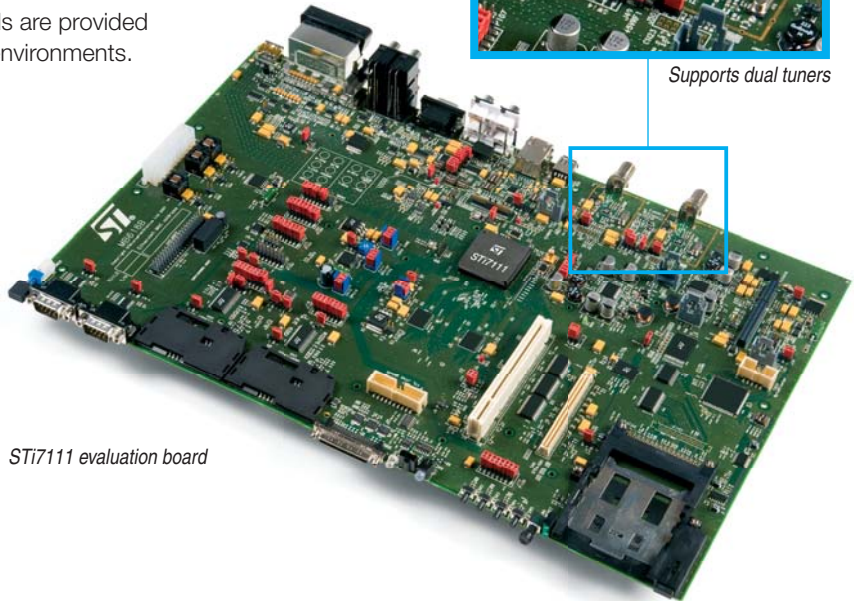- Low-cost return channel

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HD set-top box using the STi7111

Software development and evaluation platform

ST provides a comprehensive suite of hardware and software tools to enable rapid product development. Complete schematics of the evaluation platform design are available together with source code for STAPI software drivers. Development tools are provided supporting both Linux and OS21 environments.

Supports dual tuners

STi7111 evaluation board

For selected STMicroelectronics sales offices fax:

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Full product information at www.st.com

Order code: FLSTHD0308

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