

IP Television, Digital Video Broadcast, High Definition TV and more STB 77x-series

Siemens' IPTV Set-Top Box (STB) product family gives you a wide range of powerful and versatile possibilities to deliver broadcast television, video and interactive services right to your living room. Equipped with the ubiquitous Ethernet Interface interworking over the network is easily accomplished. A wide range of video codecs in Standard Definition (SD) and High Definition (HD) Television formats including MPEG-4 AVC/H.264 and VC-1 coding schemes guarantee the most economical use of precious bandwidth. Various interfaces facilitate a seamless integration into your existing environment at home.

The internal Hard Disk Drive (HDD) offers Personal Video Recorder (PVR) functionality and offers you full control over viewing, recording and timing of your favorite programmes on TV.

Thanks to our modular STB concept hybrid solutions are easily realised through extensions by Digital Video Broadcast (DVB) reception modules for terrestrial and cable broadcast transmission. Enhanced consumer needs are perfectly fulfilled by a second DVB tuner.



Characteristics

- Standard definition and high definition television
- Standard MPEG-2 decoding
- Advanced video coding support (H.264 and VC-1)
- IP Television, Video on Demand, Audio on Demand
- Internal Hard Disk Drive (HDD), Timeshifted TV and Trickplay
- Integrated digital video broadcast receiver
- UPnP Audio/Video player
- Embedded web browser
- Internal web server
- Connected through ubiquitous Ethernet to network
- PAL and NTSC support
- Supports smart card-based conditional access systems
- Supports several IPTV middleware solutions

System

- Chipset: ■ SD/HD SoC STB Processor (266 MHz, 400 MIPS)
- Memory: ■ 192 MB DDRAM
- Flash memory: ■ up to 64 MB
- Operating system: ■ Linux® 2.6
- IR control*: ■ IR remote control and keyboard
- Hard disk: ■ Hard disk drive up to 320GB

Coding

- Audio
 - MPEG1-L1/L2, MPEG2, MPEG1-L3* (MP3), AAC*, HE-AAC*, Dolby® Digital 2.0/5.1 (AC-3), Down Mix, Dolby® Digital pass through to S/PDIF
- Video:
 - MPEG-2 MP@ML (SD) and MP@HL up to 20 Mbit/s
 - MPEG-4 Part 10 (H.264) MP@L3 (SD) and HP@level 4.1 up to 20 Mbit/s
 - VC-1*

Security

- Supports smart card-based conditional access systems
- HTTPS
- Analogue and digital protection
- HDCP

Web Browser*

- HTML, HTTP, HTTPS, DHTML, SSL, Cookie, Java Script, Adobe (Macromedia) Flash
- Viewing formats GIF, JPEG, PNG

Protocols

- RTSP (VoD control), NTP
- Internet Group Management Protocol (IGMP) V2 and V3
- Dynamic Host Configuration Protocol (DHCP)

	7700	7710	7711	7742*	7743*	7762*	7763*
Standard Definition TV	◆						
High Definition TV		◆	◆	◆	◆	◆	◆
Dual DVB-T				◆	◆		
Dual DVB-C						◆	◆
Hard Disk Drive (HDD)			◆		◆		◆
Display			◆	◆	◆	◆	◆
Smart Card Reader				◆	◆	◆	◆

* Single Tuner version available on request

02-20090217

Middleware Solutions*

- Nokia Siemens Networks - IPTV solution
- Opera Browser - based solutions
- DVB-IPI (ETSI TS 102 034) Live Media Broadcast Profile

...further IPTV solutions will be implemented on request

Connectors

- Data:
 - RJ-45 Ethernet WAN (10/100Mbps Auto-Sensing)
 - Dual USB V2.0 Host (front access)
- Video:
 - Composite video out
 - S-Video (Hosiden) video out
 - SCART (RGB and Composite) A/V output
 - HDTV: Component video out (YPbPr)
 - HDTV: HDMI type A connector
- Audio:
 - RCA audio out L/R
 - S/PDIF optical digital audio out (pass-through / stereo downmix)
- DVB:
 - IEC (female) 60169-2, Antenna In
 - IEC (male) 60169-2, Loop through RF out
 - Dual or single DVB-T/-C

* optionally available on request

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