

Elecard iTelec STB 6xx

Reference Design

Elecard iTelec STB 6xx is a low cost Set-Top Box reference design that is developed to receive digital TV signal in MPEG formats. Signal can be delivered via IP-network. Elecard iTelec STB 6xx decodes the selected channel, decrypts and displays it on the TV screen via composite or S-Video outputs.

This Set-Top Box is based on open software architecture, which allows everyone to develop their own applications. Elecard iTelec STB 6xx is compatible with software of other manufacturers known on the market.

Applications

- Multimedia playback from external memory (USB Flash, USB DVD, USB HDD)
- Access to the video surveillance systems
- Web browsing on TV
- Access to payment systems (public services, cellular communications, video on demand etc.)
- Possibility of usage with USB DVB-T digital tuners

Features

<p>Supported Media Formats</p> <p>Transport File</p> <p>Video</p> <p>Audio</p>	<p>MPEG-2 TS</p> <p>MPEG-2 PS, AVI, MP4</p> <p>MPEG-1, MPEG-2 MP@ML, MPEG-4.2 ASP, MPEG-4.10/H.264 MP@L3.0</p> <p>MPEG-1 Layer I, II, MPEG-4 AAC</p>
<p>Resolution</p> <p>Analog</p> <p>Digital</p>	<p>Up to D1 (720x576 PAL and 720x480 NTSC)</p> <p>Up to XGA (1024x768)</p>
<p>Input Interfaces</p>	<p>Ethernet RJ-45</p> <p>Digital tuner (DVB-T/DVB-C)</p> <p>Mono microphone (jack 3.5)</p>

Output interfaces Video Audio	Composite (over S-Video), S-Video, DVI-I (DVI+VGA) Stereo out (jack 3.5)
Other Interfaces	5 V DC power jack Infrared receiver Three USB 2.0 ports Mini USB 2.0 port device mode Internal USB 2.0 port for extensions SD/MMC card slot UART (3V3)
Network Service Protocols Streaming Web browser	IPv4, ICMP, DHCP client, IGMP v3 (RFC2236) UDP (unicast/multicast), RTP (RFC1889), RTSP (RFC2326) HTML 4.02, JavaScript 1.5, XHTML, CSS-2, SSL3.0, DOM-2, XML
Hardware	DSP processor Texas Instruments DM6446 (DaVinci) DDR2 memory, 256 MB NAND flash memory, 128MB Additional Flash memory 2-32Gb USB2.0 Board FR4, 8 layers, 124x68mm PSU 5 Volt, 1 Amp
Software Operating System Languages	Linux 2.6.21.3 Multilingual
Controlling	Infrared remote control Infrared or USB keyboard and mouse

Order Information

Contact [Elecard](mailto:sales@elecard.com) to request manufacturing schedule or order any combination of features, input formats, input and output interfaces in STB reference design.