

Elecard iTelec STB 8xx

Reference Design

Elecard iTelec STB 8xx is a high-end set top box reference design, which brings the incredible video quality along with must-have features at an unbeatable price. Powered by Philips Nexperia PNX8950, it works really fast and can process a lot of different tasks simultaneously, thus expanding application field and letting the user take advantage of additional features, such as internet browsing and organizing a photo album.

Since the set-top box software can be updated over network, all update delays will be minimized, while integration with Smart Home technology will make interaction with other devices really simple. Elecard iTelec STB 8xx also offers DVB-T support, for the regions where DVB-T is available.

If you're looking for a solution that is fast, cost-effective and what's more important easy to integrate, Elecard iTelec STB 8xx is the best choice that you can make.

Features

- Resolution up to SD
- DVB-T/DVB-C support
- Multiview mode for DVB
- DVB channels recording on a USB media storage with optional simultaneous playback (PVR Ready)
- Files playback from a USB media storage or remote folders (Samba)
- Internet browsing
- Convenient TV program browsing provided by timeline-based EPG menu
- Middleware SDK for effortless integration of any Middleware
- Simultaneous slide-show preview and music playback
- VoIP services (SIP, RJ-11 phone jack) with user-friendly GUI
- Quick firmware upgrade via IP

Product Highlights

- Two LAN slots allow STB to operate as a home router
- Optimized web-browser scales web-pages for correct display on a TV screen
- Support of digital payment systems makes utility bills payment easy and fast
- Playback of streams delivered over HTTP makes watching video from YouTube, Facebook, etc. possible
- VoIP support allows using external phones and dial pads
- Built-in GUI makes the use of Middleware in small office and hotel networks optional
- Extended support by Elecard engineers guarantees quick feature set tailoring to your needs

Application

- Broadcasting receiving from DVB-T/ DVB-C digital tuners
- Multimedia playback from media storage (USB Flash, USB DVD, USB HDD)
- Home IP-router
- Access to digital telephony (VoIP)
- Videoconference
- Access to video surveillance systems
- Web browsing on TV
- Access to payment systems (public services, cellular communications, video on demand etc.)
- Hotel IPTV services without integration of third-party middleware

Specifications

Supported Media Formats	
Transport	MPEG-2 TS
File	AVI, MP4, MPEG-2 PS
Video	MPEG-1, MPEG-2 MP@ML, MPEG-4.2 ASP, MPEG-4.10/H.264 MP@L3.0
Audio	MPEG-1 Layer I, II, MPEG-4 AAC
Resolution	Up to D1 (720x576 PAL and 720x480 NTSC)
Input Interfaces	Ethernet RJ-45 (x2) Digital tuner (DVB-T/DVB-C)
Output interfaces	
Video	Composite (RCA), S-Video
Audio	Stereo composite (2 RCA ports), S/PDIF (optical)
Other Interfaces	Phone jack RJ-11 12 V DC power jack Infrared receiver Two USB 1.1 ports
Network	
Service Protocols	IPv4, ICMP, DHCP client, IGMP v3 (RFC2236)
Streaming	UDP (unicast/multicast), RTP (RFC1889), RTSP (RFC2326)
VoIP	SIP protocol
Web browser	HTML 4.02, JavaScript 1.5, XHTML, CSS-2, SSL3.0, DOM-2, XML
Hardware	DSP processor PNX8950 DDR memory, 128 or 256 MB Board FR4, 6 layers, 180x101mm PSU 12 Volt, 2 Amp
Software	
Operating System	Linux 2.6.21.3
Protection	Verimatrix, SecureMedia
Languages	Multilingual
Controlling	Infrared remote control Infrared or USB keyboard and mouse

Order Information

Contact **Elecard** to request manufacturing schedule or order any combination of features, input formats, input and output interfaces in STB reference design.