

Portable Multimedia Player/Recorder

Connected
Entertainment

Digital Camera

Digital TV

Imaging

IP Core

Zplayer *Ultra* Product Brief

Zoran Corporation
1390 Kifer Road
Sunnyvale, CA 94086-5305

Tel 408.523.6500
Fax 408.523.6501
www.zoran.com



Description

The Zplayer Ultra reference design is a multimedia record and playback device featuring a built in 20, 30 or 40GByte hard disk, SD-card interface and USB2.0 High Speed and Full Speed connectivity to a PC or USB mass storage device. Audio or video data can be uploaded via USB to the local hard disc or SD-card. The SD-card contains pre-recorded data in MPEG-4, JPEG or MP3 format. Audio and Video data is output to a LCD or to a TV. MP3 files play through headphones.

Zplayer Ultra is based on the Zoran Zmedia chip (ZR36070) which uses a MPEG-4 codec for video, a JPEG codec for still images, and a MPEG1L2 codec for audio. Additionally, the Zmedia chips decodes MP3 audio files. It has a built-in USB controller for host and slave mode and SD-card interface. Zplayer Ultra is part of a family of versatile multimedia products based on the Zmedia chip.

Applications

- Record and playback of audio and video files from MPEG-4 or JPEG clips on built-in high quality LCD screen or to a TV
- Watch still images shot using a digital still camera (DSC) on your TV
- Playback audio MP3 files via headphones while traveling
- Portable video recorder using analog a/v inputs
- Easy conversion from all file formats playable by Windows Media Player into Zplayer Ultra supported formats

Features

- Recording and playback device for audio (MPEG1L2), video (MPEG4), and still image (JPEG) file formats plus MP3 playback
- Zplayer Ultra is based on Zoran's leading edge Zmedia chip technology
- Video can be played if encoded in MPEG-4 (Adv. Simple Profile/Simple Profile) or JPEG format, still images are encoded as JPEG files
- Video resolution for NTSC/PAL is VGA size (640x480) at full frame rate
- Audio accompanying the video has to be encoded in MPEG-1L2 or PCM. Standard MP3 files (audio only) can be played, too
- Files can be converted on the PC from most formats into MPEG-4, JPEG or MP3
- JPEG files created on DSCs can be watched directly without conversion
- The Zplayer Ultra acts like a mass storage device when connected to the PC
- Fully backwards compatible with all existing USB 1.1 devices for file uploads or downloads
- Simple Start/Stop/Next/Previous navigation available as stand-alone playback device
- Very intuitive and user friendly graphical user interface, easily customizable to manufacturer's needs
- Device can interface with an infrared remote control
- Lithion Ion battery powered in stand alone mode
- Standard 5V power supply for charging and externally powered operations
- Basic manufacturing kit to support mass production
- Comprehensive PC Windows / Mac OS X application to handle the transcoding and downloading of user files to the PMP and PC
- PC application supports internet access to buy and download commercial content
- Integrated security module on Zplayer Ultra to handle playback of DRM-protected commercial content

Deliverables

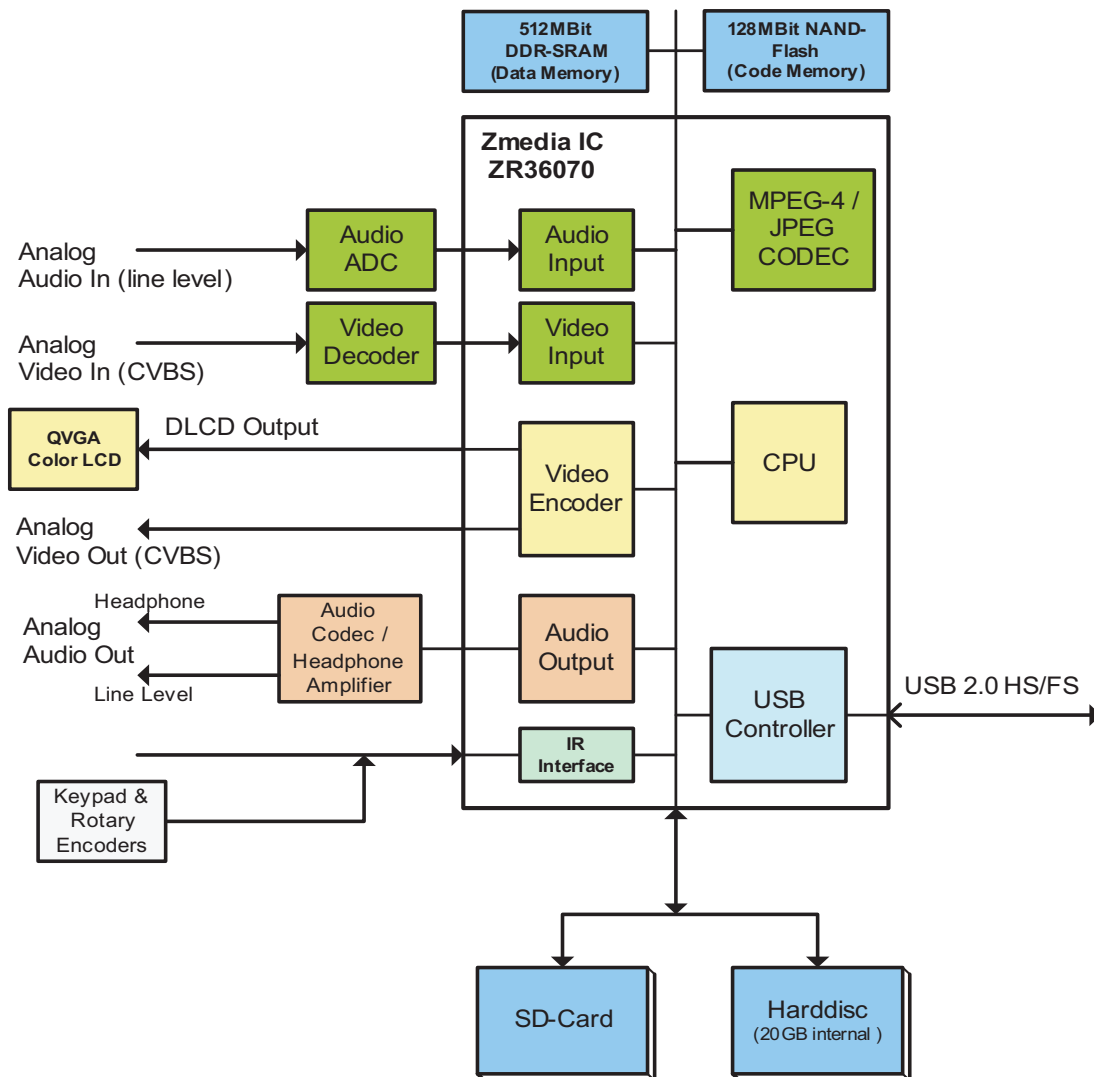
- Assembled and tested reference design board
- CD-ROM disc with complete design documentation including schematics, layout files and drivers
- Installation guide, manual and technical reference materials
- Functional Diagram
- Block Diagram

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Block Diagram



For more information, contact Zoran's Sunnyvale office or the office nearest you:

Shanghai, China	Shenzhen, China	Hong Kong	Israel	Japan	Korea	Taiwan
Zoran China Office	Zoran China Office	Zoran Asia Pacific Ltd.	Zoran Microelectronics Ltd.	Zoran Japan Office	Zoran Korea Office	Zoran Taiwan Office
Tel: 86-21-6427-6258	Tel: 86-755-8281-5777	Tel: +852-2620-5838	Tel: +972-4-8545-777	Tel: +81-3-5475-1051	Tel: +82-2-761-7471	Tel: +886-2-2659-9797
Fax: 86-21-6427-6260	Fax: 86-755-8322-0889	Fax: +852-2620-5238	Fax: +972-4-8551-550	Fax: +81-3-5475-1053	Fax: +82-2-761-7472	Fax: +886-2-2659-9595

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