

ZPLAYER ULTRA

Driving The Digital Lifestyle

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

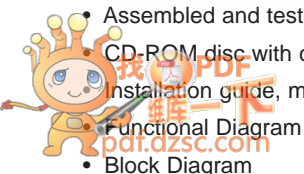
- Record and playback of audio and video files from MPEG-4 or JPEG clips on built-in high quality LCD screen or to a TV
- Watch still images shot using a digital still camera (DSC) on your TV
- Playback audio MP3 files via headphones while traveling
- Portable video recorder using analog a/v inputs
- 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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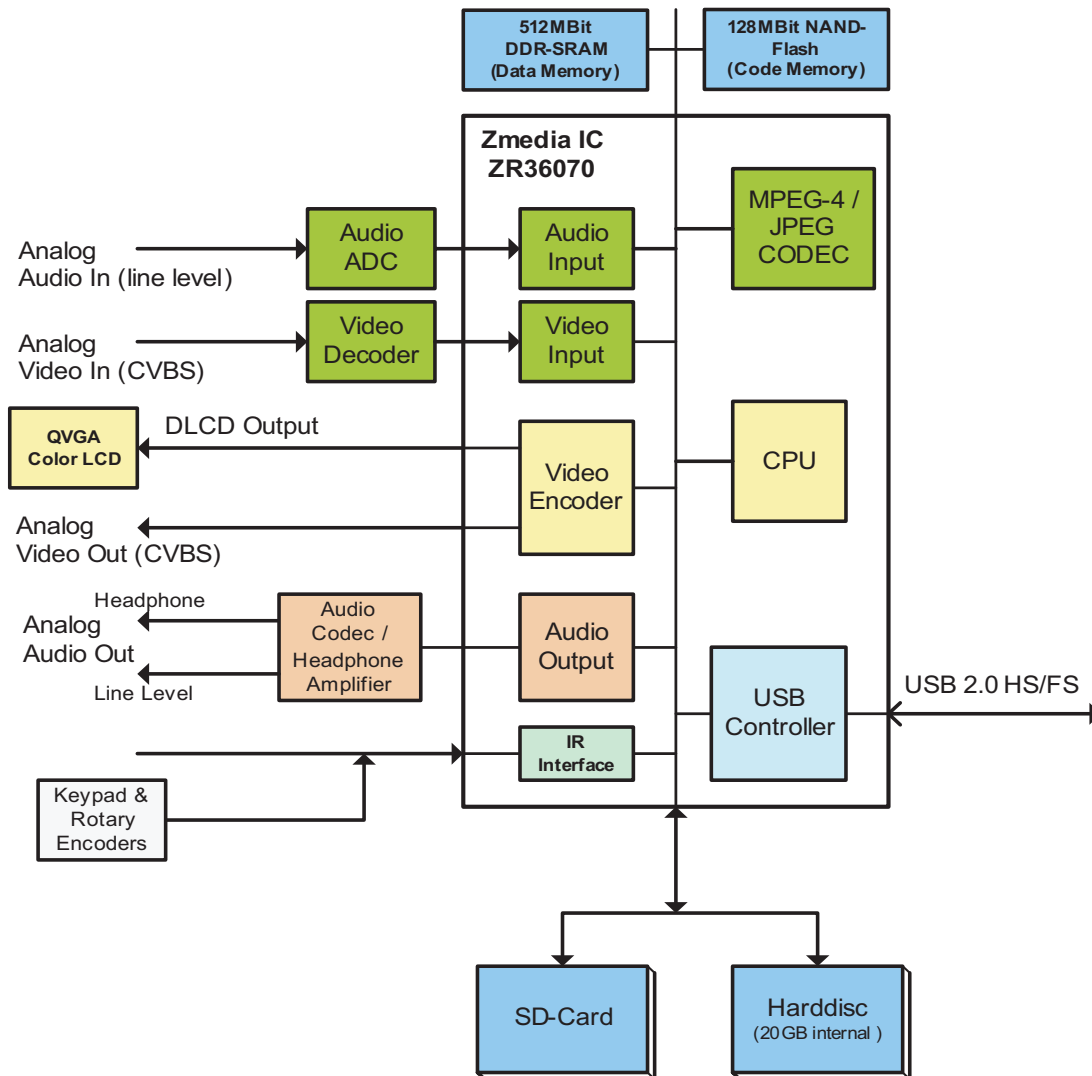
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Block Diagram



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

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|----------------------|-----------------------|-------------------------|-----------------------------|----------------------|---------------------|-----------------------|
| 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 |