### 查询ZR36460供应商

# Driving the Digital Lifestyle

COACH 0	TTP COM			9	
Digital Camera Pro	DVD DVD	Digital TV	Imaging	IP Cores	Mobile
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Description	130	016 22			

COACH 8 is an application specific digital signal processing IC, which constitutes the heart of a digital camera for capturing still images and video. It provides a complete, integrated, low power and low cost solution for digital camera manufacturers. Coach 8 innovative features and integrations offer competitive performance and picture quality for digital cameras. The COACH 8 family enables platforms from entry-level to high end cameras including high quality digital video camcorders.

### **COACH 8 Family**

COACH<sup>TM</sup> 8

- **COACH 8m** (part # ZR36460BGCG) Entry-mid range line, 12-bit color depth. Pin-to-pin compatible with COACH 7m
- COACH 8p (part # ZR36462BGCG) Performance line,16-bit color depth, embedded timing generator & HDMI interface
- COACH 8s (part # ZR36463BGCG) Digital Still Capture line, with JPEG/Motion JPEG only
- COACH 8MCM Multichip package for space-saving boards for ultra-slim cameras

\*All products support up to 16M pixels of image resolution, are firmware compatible, and share a majority of the system configuration allowing for easy migration

### **Feature List**

- Up to 16M Pixels image capture resolution
- Click to click performance of 3 to 4 frames/sec at 5MP resolution
  16-bit image processing for highest quality, includes multiple Zoran
- no-bit image processing for highest quality, includes multiple zorar proprietary (patent pending) technologies.
- Image enhancement and manipulation effects for better viewing and printing quality
- Capable of WMV MPEG-4, video capture and playback of VGA resolution at 30 frames/sec including audio
- File formats including ASF, DivX, AVI and MOV can be supported
- MPEG-4 encoding uses I, P and B frames for true video quality
- Digital Video Motion Stabilization technology (patent pending) to compensate for unwanted camera movement during video capture
- Capable of several Audio codecs including: WMA; Dolby Digital AAC; ADPCM; MPEG1
- On-chip HDMI transmitter for native HD display support
- Rich color on-screen display (OSD) with transparency levels
- Picture-in-Picture with blending support in hardware

### **Firmware Highlights**

- Embedded host control (HCE) software architecture enables customer creation of DSC applications with minimal effort
- Backward compatibility with previous COACH software API set
- Open firmware architecture for easy customer modification
- All standard camera operation modes
- Image playback allows up to 16x digital zoom, accelerated playback and image rotation
- Advanced GUI support including rich OSD, bitmaps, picture in picture and more
- Resizable, multicolor fonts

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- Optional audio annotation of pictures
- Playback and recording of sound in AVI clips

- Direct output to TV monitor, on-chip encoder and video D/A
- Digital video interface to LCD. Includes on-chip programmable controller for multiple LCD vendors
- 32-bit MIPS CPU provides ease of development and porting of SW applications
- Direct interface to resident flash memory (NAND or NOR type) and/or removable memory card support (CompactFlash (CF), SmartMedia (SSFDC), Secure Digital (SD), MultiMediaCard (MMC), High Speed MMC (HSMMC) xD, Memory Stick, Memory Stick Pro (MS-Pro) and SDRAM storage
- Direct interface to ATA-6 (or subset) hard disks.
- 16-bits data DDR-SDRAM interface supporting sizes of 64Mbit, 128Mbit, 256Mbit, 512Mbit and 1Gbit
- On-chip High Speed USB 2.0 OTG interface
- CCIR-601 input port for capturing from an external TV decoder.
- Sound effects, including shutter effects
- Dictaphone feature
- Variety of protocols for USB interface supported including:
  - PC Video Capture mode, for capturing real time video (MJPEG compressed) to PC
  - WIA, Twain, and Twain 2 protocol for direct retrieving of images and live video
  - Bulk-Only Mass Storage, for representing camera as a PC drive. No drivers required for most operating systems
  - PTP
  - Pictbridge, for direct printing to all printers supporting Pictbridge interface

## COACH<sup>™</sup> 8

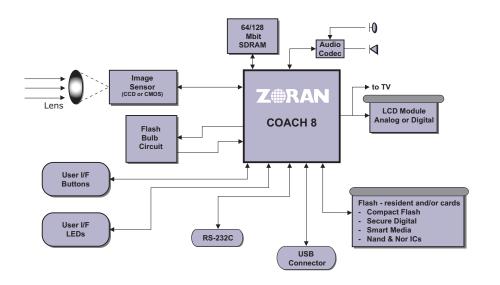
### ZR36460

**Product Brief** 

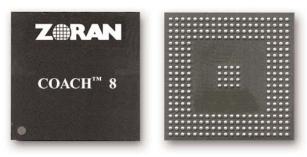
Driving the Digital Lifestyle



### **Block Diagram**



### **COACH 8 Package**



17cm x 17cm

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

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