



C O N E X A N T



Low-cost and low-power solution for wireless and battery-operated cameras

Upon a motion event, the host processor wakes and configures the CX93510 and begins image/audio captures within 100 ms of motion being detected. The chip has both digital and analog photocell sensor inputs available to facilitate the measurement of ambient light and uses an on-chip LED driver to control an external infrared LED during low-light conditions. The CX93510 supports JPEG and MJPEG-DPCM image compression. An optional 2:1 scaler provides Quarter Video

The CX93510 is a flexible, cost-effective, and low-power ASSP ideally suited for security applications requiring visual verification.



- Passive Infrared Camera
- Wireless Camera
- IP Network Camera
- Remote Home Monitoring
- Personal Emergency Response System
- Baby Monitor
- Nanny/Pet Camera
- Smart Meter
- Video Intercom/Monitor
- Security Intercom

Key Features	Benefits
Integrated mixed-signal design for analog-to-digital image processing	No external components required for image conversion
On-chip 256 KB/128 KB frame buffer	No external RAM required
Supports JPEG and MJPEG-DPCM image compression and processes both color and black and white images	Provides excellent image processing up to 30 fps
Supports low bandwidth	Differential JPEG reduces file sizes by up to 80 percent for faster transfer time
Low sleep mode power - 10nA	Longer battery life
Low operating power -12mA	Energy-efficient design generates less heat
Integrated analog components (ADCs, LCD driver)	No analog components required
I ² C, SPI, and UART interfaces for flexible connectivity	Allows for wide selection of microprocessors
Register-driven device	Simple operation, no CPU
Optional microphone input records audio session simultaneously during image captures	Provides complete A/V solution with flexible frame buffer for audio and video data storage

Description	JPEG Encoder with aBT.656 Camera Interface and Optional Microphone Input
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