

AL37219 Nine-Channel Video Surveillance Processor

Introduction

The AL37219 is a feature-rich, 9-CH video surveillance processor that provides the foundation for a reliable, flexible, high security surveillance system. A single AL37219 chip can easily support 9 channels of real-time camera video streaming. Features include simultaneous monitor-playback operations, flexible video display modes, bitmapped OSD with dynamic colors, accurate motion detection (16X12 grids) with flexible thresholds and triggers, and replay on all input and playback channels.

Applications

- Video Surveillance Multiplexor/Processor
- DVR and POS DVR
- Video Server
- Highway traffic throughput surveillance
- Medical inspection/surgery
- ATM machine surveillance
- Defense surveillance
- Recovery room monitors in hospitals
- Home stay monitoring
- Extended-hours monitoring in biological experimental laboratories
- Multiple channel IP cameras
- Car rear-vision systems
- High-end TV boxes with channel preview

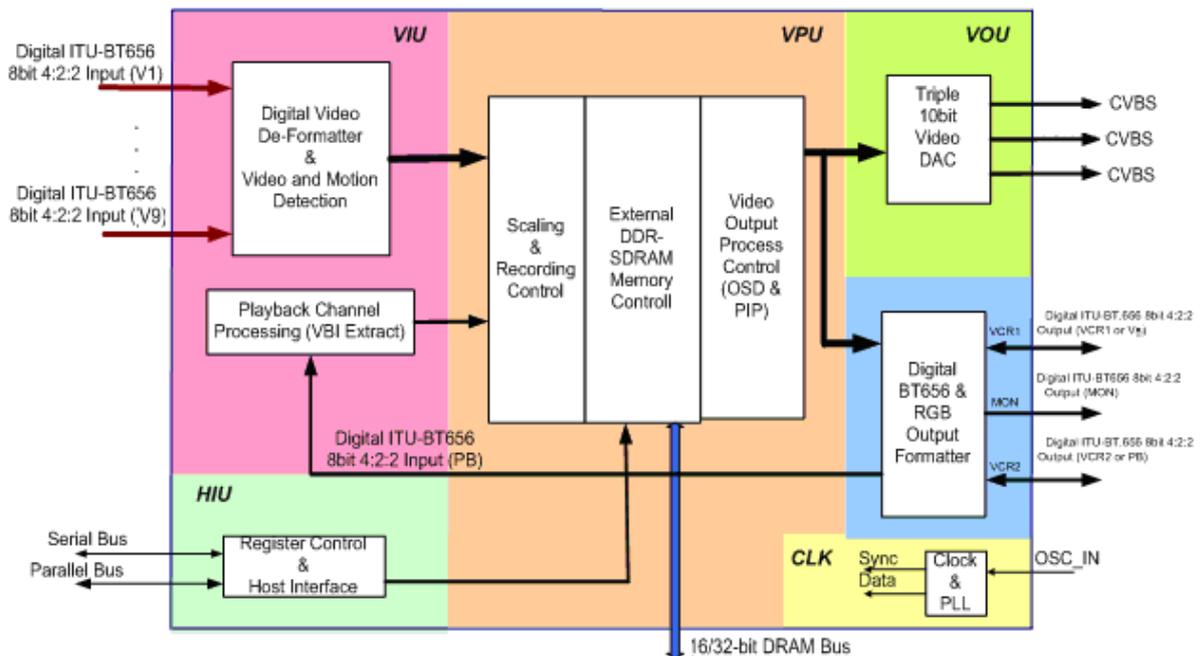
Features

- Supports NTSC and PAL standards
- A single chip supports 9-CH real-time surveillance
- Supports multi-window display modes of 1,2,4,6,7,8,9,10,13,16 panels
- Supports PIP/POP display modes
- Independent linear horizontal/vertical (H/V) scale down factors (1/2, 1/3, 1/4, 2/3, 3/4)
- Programmable brightness, contrast and saturation
- Individual channel freeze
- Replay on individual channels
- Programmable bitmap type font for embedded OSD display
- Supports DDR 16/32-bit interfaces up to 8 Gbits of memory
- Supports motion detection / video loss
- Motion detection resolution: 16X12 grids
- Supports channel-switching at front-end TV decoder
- VBI insertion and extraction
- Supports external VCR / DMR / DVR signal triggers
- Three embedded TV encoders with three DACs

Interfaces

- 9 digital ITU-R BT. 656 inputs with another additional input for playback that is shared with the second digital output port.
- 3 independent digital ITU-R BT. 656 output ports.
- 3 independent analog output ports for S-video or Composite signals. The 3 analog outputs can be configured for different combinations of Composite CVBS and S-Video.
- HPI (Host Parallel Interface) and 2-wire serial bus.
- DDR Interface: 16/32-bit up to 8 Gbits memory.

Block Diagram



Ordering Information

| Part number | Package | Voltage |
|-----------------|----------|---------------|
| AL37219C-LF-PBF | LQFP-256 | +1.8/2.5/3.3V |

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