TW2880

Multi-Channel Surveillance Camera Controller with VGA/HDTV Display Capability
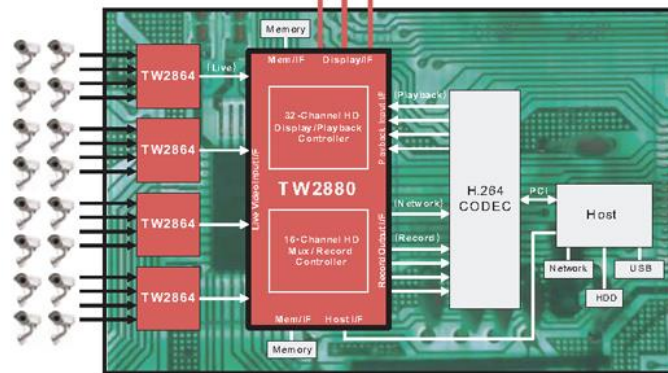
Summary

Display Controller Features List

- Supports 1080p HDTV and VGA Display
  – Horizontal size: 640 ~ 1920, Vertical size: 480 ~ 1080
  – Max pixel clock: 174 MHz (if MCLK > 166 MHz)
  – Vertical Refresh frequency: Flexible, can be programmed as 50, 56 or 60 Hz
  – Flexible output interface, Analog VGA (HD15), Digital VGA (DVI) and HDMI (V1.2)
  – Capable of displaying up to 33 Channels in one screen, live video or playback combined.
  – 2 HD channels through playback interface and in BT.1120 format.
  – Motion Box (MD) on all display channels.
  – User selectable Weave/2D/3D de-interlacing method for video quality enhancement
  – Up / down scaler for arbitrate windows size
  – Three layers of OSG overlay with High-color (16 bit) bit map
  – OSD display layer for title and channel ID
  – Single Box Display for highlighting and Mouse / Cursor Overlay
- Video Input from Decoder Interface
  – Support 27 MHz BT.656 input
  – Support 54,108 MHz BT.656 byte-interleaved input
  – Motion Box (MD) on all display channels.
  – D1/Half D1/CIF selection
- System clock at 108MHz, Memory clock 166 - 180 MHz
- I²C and 108 MHz parallel MCU host interface

Recording Controller Features List

- High flexibility record output function
  – Real time field interleaved, frame interleaved output
  – Priority recording
  – Multi-mode output controlled by user
- High flexibility Spot output function
  – Four individual output
  – Full/Half/CIF display with OSD
  – Automatic switching
- Random sequence recording(Table recording) function
- Motion Detector & Channel ID Encoding / Decoding
- Embedded font-RAM for color OSD
- Split border and background color setting

HD 1080p Main Display
(Live/Playback Video + Map + Control Panel)

Advanced 16 - Channel DVR System

For additional products, see www.intersil.com/product_tree

Intersil products are manufactured, assembled and tested utilizing ISO9001 quality systems as noted
in the quality certifications found at http://www.intersil.com/en/support/qualandreliability.html

For information regarding Intersil Corporation and its products, see http://www.intersil.com