



CX25822

960H PCI-Express Media Bridge

Multi-Channel Video and Audio to PCIe Bridge

The CX25822 multi-channel media bridge device enables bi-directional digital video and audio transfers to a host PC via a PCIe x1 interface. The CX25822 contains BT.656/VIP2.0 digital video interfaces supporting up to 36 MHz input clock rates and I²S digital audio interfaces supporting up to 96 kHz sample rates, for uncompressed video and audio data respectively. The CX25822 device is designed for PC-based security Digital Video Recorders (DVRs) supporting 960H applications.

Flexible Architecture

With ten bi-directional video interfaces (maximum of eight in either direction) and five bi-directional audio interfaces (maximum of four in either direction), the CX25822 can bridge multiple streams of BT.656/VIP2.0 video and I²S audio to/from the PCIe bus.

The video interfaces may be configured to accept video data in a "54 MHz Mode", which reduces the number of traces routed on the PCB by interleaving 2 data streams on a single digital video port.

The CX25822 contain 48 GPIO pins, which maximize flexibility and allow customization to a variety of applications and designs. The GPIO pins also support I²C interfaces, interrupts, flags for motion detection, and other features.

Surveillance-Specific Features

The CX25822 contains programmable logic to detect motion on incoming BT.656/VIP2.0 streams. The ability to detect motion on incoming video streams allows the CX25822 to immediately alert the host processor of motion via interrupts over PCIe.



Distinguishing Features

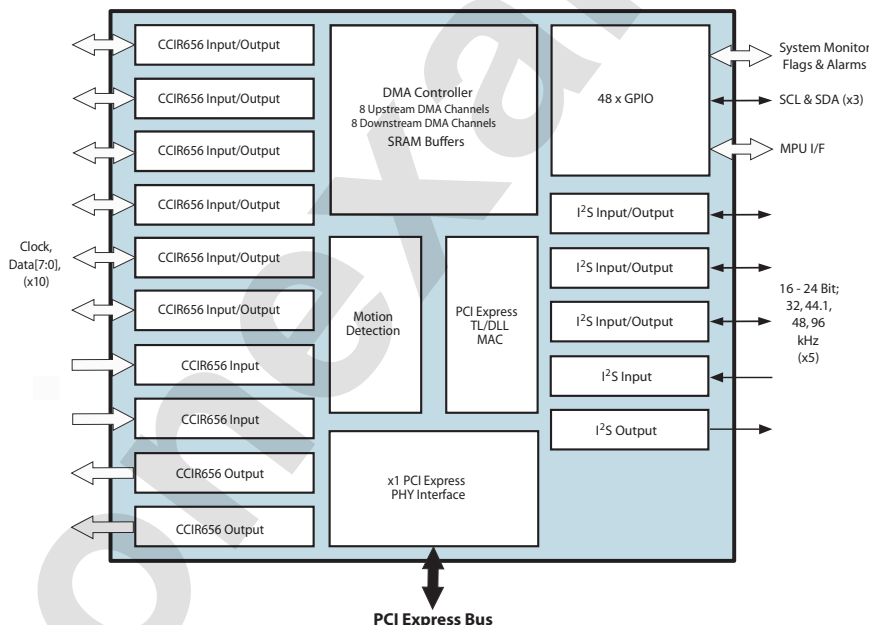
- ◆ PCIe 1.1 Compliant
- ◆ Bi-directional BT.656 interfaces to PCIe
- ◆ Bi-directional I²S interfaces to PCIe
- ◆ Programmable Motion Detection
- ◆ Supports "54 MHz Mode" digital video data (2 channel byte-interleaved mode)
- ◆ 48 GPIO pins

Applications

- ◆ 960H PC-based DVRs

Packages

- ◆ 233-pin, 14x14 mm, fpBGA
- ◆ 256-pin, 28x28 mm, eLQFP



Part Number CX25822

Description

960H PCI-Express Media Bridge

