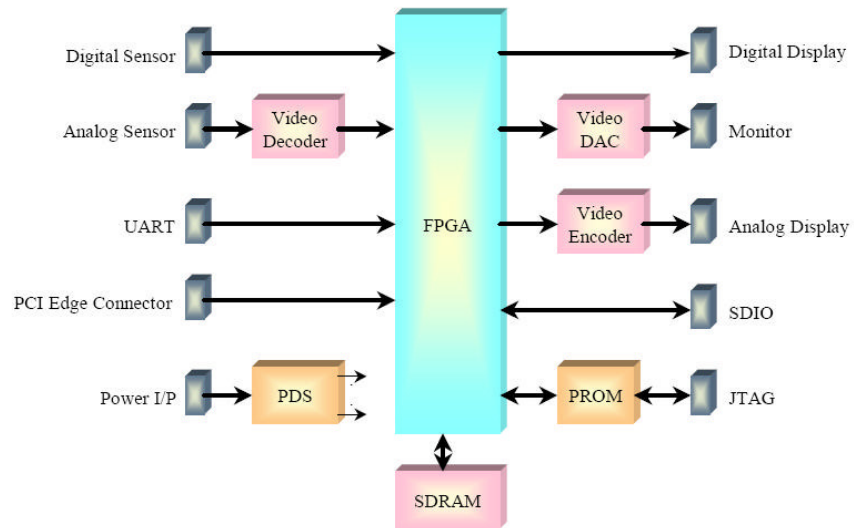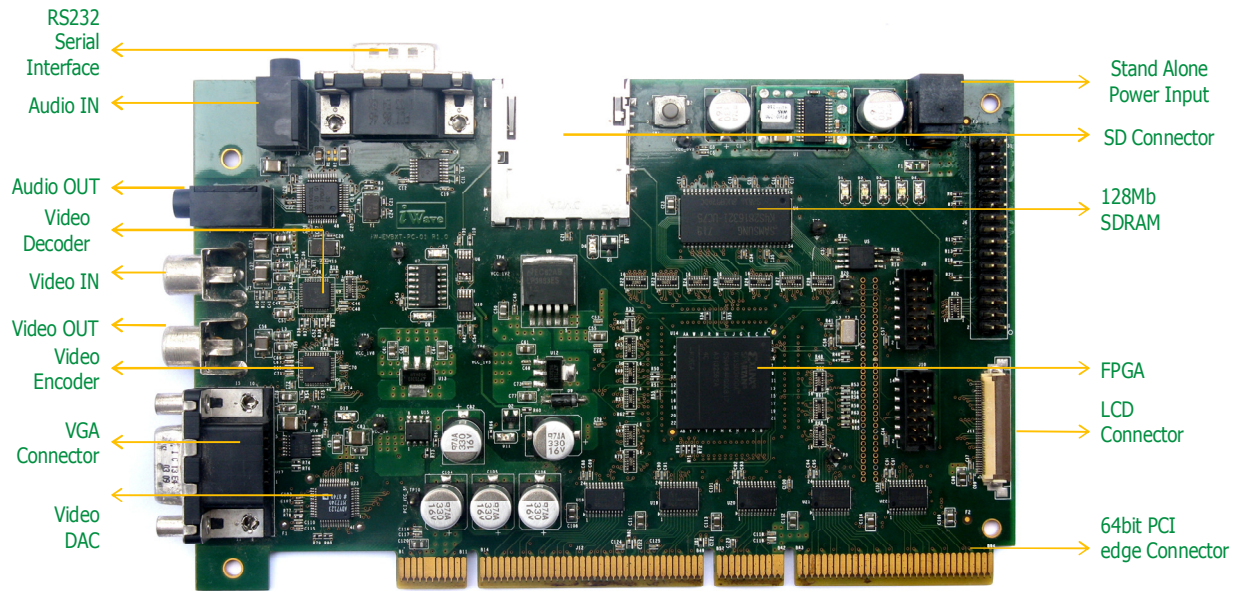## Overview

The Video demo board is mainly used for the demonstration of different Video interface cores developed by iWave. This board is capable of handling both Analog as well as Digital videos and display the same in Analog or Digital display. So this board suits for all video related application irrespective of Analog or Digital.

Features

- ➢ FPGA
  - ▪ SPARTAN-3A FPGA (XC3SD3400A)
- ➢ 64-bit Universal PCI Edge Connector
- ➢ Video decoder (ADV7180)
  - ▪ 10 bit, 4× oversampling SDTV Video decoder.
- ➢ Video Encoder (ADV7393)
  - ▪ Low power, chip scale 10-it SD/HD Video Encoder.
- ➢ Video DAC (ADV7123)
  - ▪ Triple 10 bit high speed video Digital to analog converter.
- ➢ Audio codec (UCB1400)
  - ▪ Audio codec with touch screen controller and power management monitor.
- ➢ Digital Camera Input
- ➢ LCD Connector
- ➢ SD Connector
- ➢ Audio Input and Output Connector
- ➢ SDRAM (K4S281632B1)

Block Diagram

RS232
Serial
Interface

Audio IN

Audio OUT

Video
Decoder

Video IN

Video OUT

Video
Encoder

VGA
Connector

Video
DAC

Stand Alone
Power Input

SD Connector

128Mb
SDRAM

FPGA

LCD
Connector

64bit PCI
edge Connector

Deliverables

- Video demo board
- Schematics of the board
- Board user manual
- Power supply for Stand-Alone mode (1 no.)