

1 Overall

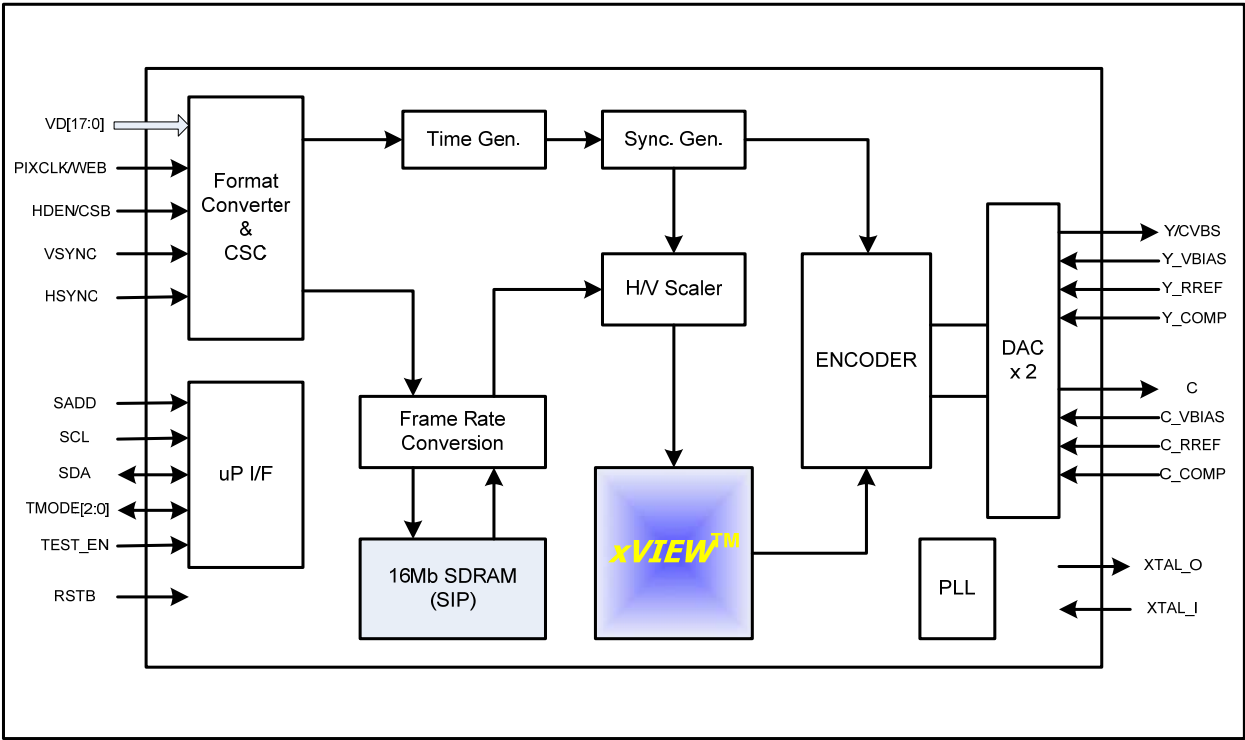
1.1 Description

moTive(ISE2110C) is properly designed for the mobile devices, especially for the low power consumption, improvement of size and quality. Host interface data format supports RGB(5:6:5), RGB(6:6:6), RGB(8:8:8), YCbCr(4:2:2), and the output supports two 10bits DACs for CVBS/Y & C.

1.2 Feature

- ✓ NTSC-M / NTSC-J Compliant
- ✓ PAL-B,D,G,H,I / PAL-M / PAL-N Compliant
- ✓ Supports variable input image size
 - Up to VGA(640x480)@30Hz
- ✓ Supports variable input formats
 - RGB: (5:6:5), (6:6:6), (8:8:8)
 - YCbCr (4:2:2)
- ✓ Supports variable interface data bus widths
 - Memory Interface: 8 bits/ 16 bits
 - Video Interface: 8bits/ 16bits/ 18bits
- ✓ Built-in 10bit Video DAC 2 channel
 - Y/ CVBS DAC 1 channel
 - C DAC 1 channel
- ✓ Built-in Horizontal/ Vertical Up/ Down Scaler
- ✓ Built-in Frame Rate Conversion
- ✓ Built-in the **xView™** engine for image enhancement
- ✓ Built-in Frame Memory(16Mb)
- ✓ Built-in Test Pattern(Color Bar, Ramp)
- ✓ Application
 - CDMA/ GSM phone
 - PDA/ PMP/ DMB
 - Other visual handheld devices
- ✓ Support Serial Communication (I2C Compatible)
- ✓ 5.0 mm x 5.0 mm @ 76 FBGA
- ✓ 0.18um CMOS PROCESS

1.3 Block diagram



[Figure1. Block diagram]