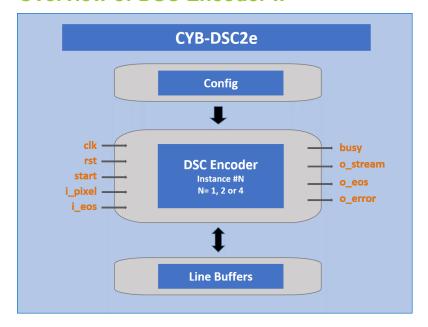


## Overview of DSC Encoder IP



Display Stream Compression (DSC) standard was announced by Video Electronics Standards Association (VESA) in 2014 for video data compression and has been also adopted into the VESA's eDP v1.4 and the MIPI DSI standard.

Compliant with the VESA DSC 1.2a and 1.2b standards, CYB-DSC2e IP core supports various coding schemes (MMAP, BP, MPP, ICH) as well as color formats in YCbCr 4:4:4, 4:2:2, 4:2:0 and RGB. It transfers more pixel data over display links to save memory size in embedded frame buffers in display driver ICs and performs visually lossless compression, low gate count and latency for ultra-high definition display applications. It can be fastly and easily integrated into ASIC and FPGA applications for 4K / UHD TV, DisplayPort 1.4, USB Type-C device and AR / VR product.

CYB-DSC2e is available now for display designs with high performance but low risk and cost.

## **Feature**

- Compliant with the VESA DSC 1.2a and 1.2b standards
- · Perform encoding
- Support MMAP, BP, MPP and ICH
- Support 4:4:4, 4:2:2, 4:2:0
  and RGB
- Support 8/10/12 bits per component
- Support 1 pixel per clock
- Configurable features for gate count, speed or power requirement
- Programmable display resolutions

## **Deliverable**

- Flexible licensing
- Documentation
- Netlist
- Verilog or VHDL
- Technical support

## **Application**

- 4K / UHD / Digital TV
- Automotive Video
- USB Type-C device
- AR / VR product

