Key Features

- VESA Display Stream Compression (DSC) 1.2a compliant
- Supports all DSC 1.2a mandatory encoding mechanisms
  - MMAP, BP, MPP, and ICH
- Output buffering compatible with transport stream over video interfaces
- Configurable maximum display resolution
  - Up to 4K (4096x2160), 5K (UHD+), and 8K (FUHD)
- 8, 10, 12, 14, and 16 bits per video component
- YCbCr and RGB video input format
- 4:4:4, 4:2:2, and 4:2:0 native coding
- 1 pixel / clock internal processing architecture in 4:4:4
- 2 pixels / clock internal processing architecture in 4:2:2 and 4:2:0
- Parameterizable number of parallel slice encoder instances (1, 2, 4, or 8) to adapt to the capability of the technology and target display resolutions used
- Multiple slices per line in each encoder instance supported (up to 2 slices)
- Encode up to 16 slices per line
- 100% verification coverage based on UVM environment
- Verified against the VESA DSC 1.2a C model using a comprehensive test image library
- Backward compatible with DSC 1.1

Deliverables

- Encrypted RTL source code IP core
- Functional and structural coverage reports
- Comprehensive integration guide
- Technical support and maintenance updates

Product Options

- IP customization and integration services available on request
- Multi-project licenses available
- UVM verification bindable modules