**Key Features**

- VESA® Display Stream Compression (DSC) 1.2b compliant
- Supports all DSC 1.2b mandatory and optional encoding mechanisms
- Backward compatible to DSC v1.1
- Configurable maximum display resolution up to 8K (FUHD)
- 8, 10, 12 bits per video component
- YCbCr and RGB video output 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, 8) to adapt to the capability of the technology and target display resolutions used
- Support for Intel® Arria®, Stratix®, and Agilex™ FPGAs
- Avalon-Streaming interfaces for easy integration in the Intel Platform Designer tool
- Avalon-Memory Map interface for register access
- Compliant solution for DisplayPort 1.4 or HDMI 2.1
- Compatibility for slices per line requirements when using a frame buffer
- Supports flexible usage models and design architecture

**Deliverables**

- IP for the Intel Platform Designer tool containing DSC Encoder core in netlist format, Avalon-Streaming interfaces, and Avalon-Memory Map interface modules in RTL
- IP specification
- Comprehensive integration guide
- Technical support and maintenance updates
- Integration or design services available on request