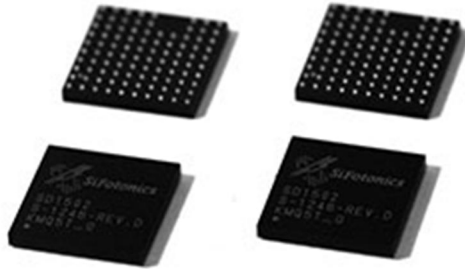


## SD1502/1512

### HDMI SERDES

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SD1502 is a fully integrated 10Gb/s serializer and HDMI receiver PHY device that converts an HDMI source signal to a serialized 10G data stream. The HDMI receiver supports a 340M pixel clock. The SD1502 integrated 10Gbps serializer has a wide working range from 5G to 11.5G.

#### Features:

- HDMI 1.4 Sink, pixel clock is up to 340M
- HDCP support
- DDC CEC HPD signal support
- Low-jitter PLL for clock generation
- Programmable differential output swing on serial driver
- Continuous serial operation range from 5G to 11.5G
- Reference clock: 24M crystal or 1/64 line data rate
- I<sup>2</sup>C control interface
- 1.1/2.5V core voltage and 3.3V I/O voltage
- 96-Pin BGA package (10x10, 0.8mm pitch)
- Wide operating temperature: -40°C to 85°C