

# DisplayPort Test Solutions

Supercharged SerDes technology that enables the most immersive display experiences



## Flexible Products that Satisfy Your Testing Needs

Introspect Technology has created a complete set of solutions for DisplayPort design validation, characterization, and production testing. Our solutions contain a wide host of protocol features for validating Embedded DisplayPort up to v1.5 and DisplayPort up to v2.1, and they simultaneously include the most complete range of physical-layer features that enable testing receiver sensitivity and equalization capability. Most importantly, our solutions work with Introspect’s powerful software Pinetree, thus offering complete flexibility in controlling and validating the highly complicated Embedded DisplayPort and DisplayPort communications protocols.

### INDUSTRY CHALLENGES

- Extremely high data rates
- Closed-eye testing and link equalization training
- Complex protocols for multi-stream transport, secondary packets, low-power mode, and others
- Tight coupling between physical layer features (e.g. equalization) and protocol layer features (e.g. training)

### INTROSPECT CAPABILITY

- Up to 26 Gbps coverage for v2.0 support
- Generators with link training, multi-stream transport, audio streaming, and receiver stress testing via jitter injection, noise injection, and spread-spectrum clocking
- Analyzers that can act as a sink or as a sniffing (probing) analyzer
- Various probing and repeater options for equalization training sequences between source and sink devices



Protocol analyzer capture of an eDP mobile screen



Probing a DisplayPort application with the SV5C-eDP Analyzer

**C SERIES**

**SV5C-eDP Generator**

Embedded DisplayPort Generator

Generator for Embedded DisplayPort up to v1.5 and DisplayPort up to v2.1 systems in HBR



**SV5C-eDP Analyzer**

Embedded DisplayPort Analyzer

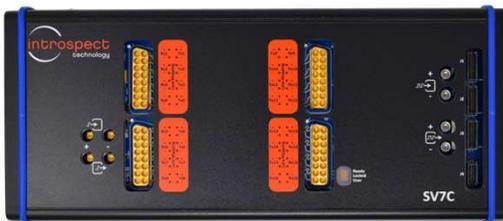
Complete Analysis of Embedded DisplayPort up to v1.5 and DisplayPort up to v2.1 systems in HBR



**SV7C-eDP Generator**

Embedded DisplayPort Generator

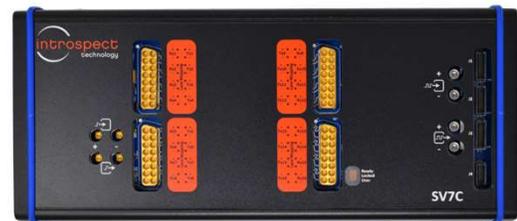
Generator for Embedded DisplayPort up to v1.5 and DisplayPort up to v2.1 systems in HBR and UHBR



**SV7C-eDP Analyzer**

Embedded DisplayPort Analyzer

Complete Analysis of Embedded DisplayPort up to v1.5 and DisplayPort up to v2.1 systems in HBR and UHBR



**OSCILLOSCOPE PROBING SOLUTIONS**

**PV2**

Universal Active Probe

**Bandwidth:** up to 8 GHz for high-speed links carrying low voltage, high-speed signals



**DisplayPort Repeater Board**

Waveform probing for DisplayPort streams

**Bandwidth:** up to 10 Gbps for DisplayPort v2.1 and Embedded DisplayPort up to v1.5



**ASK US ABOUT THE USB-C REPEATER BOARD**