

E SERIES

SV6E-X

Mid -Frequency Digital Test Module



Multi-Protocol Digital Exerciser and Analyzer With 200 MHz I/O Speeds

The SV6E-X is an all-inclusive solution for mid-frequency digital interface development and test. Capable of supporting popular protocols such as I2C, I3C (up to v1.2), SPI, SoundWire, and RFFE, this module replaces racks of equipment that are typically required for I/O testing. For any given protocol, the SV6E-X contains three instruments in one: a protocol exerciser, a protocol analyzer with fine-resolution timing analysis, and a real-time oscilloscope with a full suite of conformance test capability. All three categories of instrumentation features are accessible simultaneously and in real time using the award-winning Pinetree™ software.

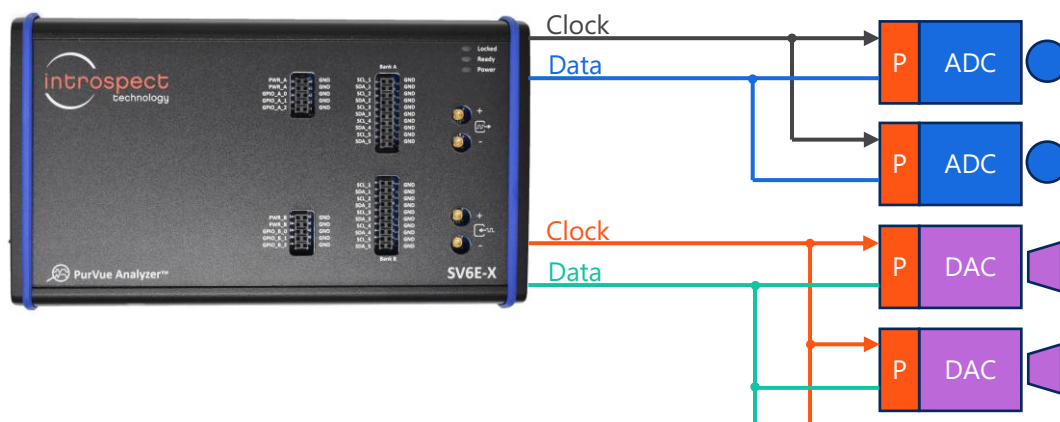
KEY FEATURES:

- **Selectable Protocols:** provides true native protocol handshake with a built-in API for popular digital protocols
- **Device Instances:** integrates up to 4 parallel devices, each with its own independent protocol stack
- **PurVue Analyzer Option:** available 1 Gbps real-time oscilloscope that can connect to any channel
- **Protocol Analysis:** easily trigger on protocol-specific commands

KEY BENEFITS:

- **Future-Proof:** use a single investment in hardware to evolve protocol testing over multiple generations of product development
- **Flexible:** programmable voltage levels and input/output timings offer true functional stress testing and characterization capabilities
- **Automated:** scripting capability ideal for debug tasks, verification and full-fledged production screening of devices and system boards

Typical Application: MIPI SoundWire Device Testing

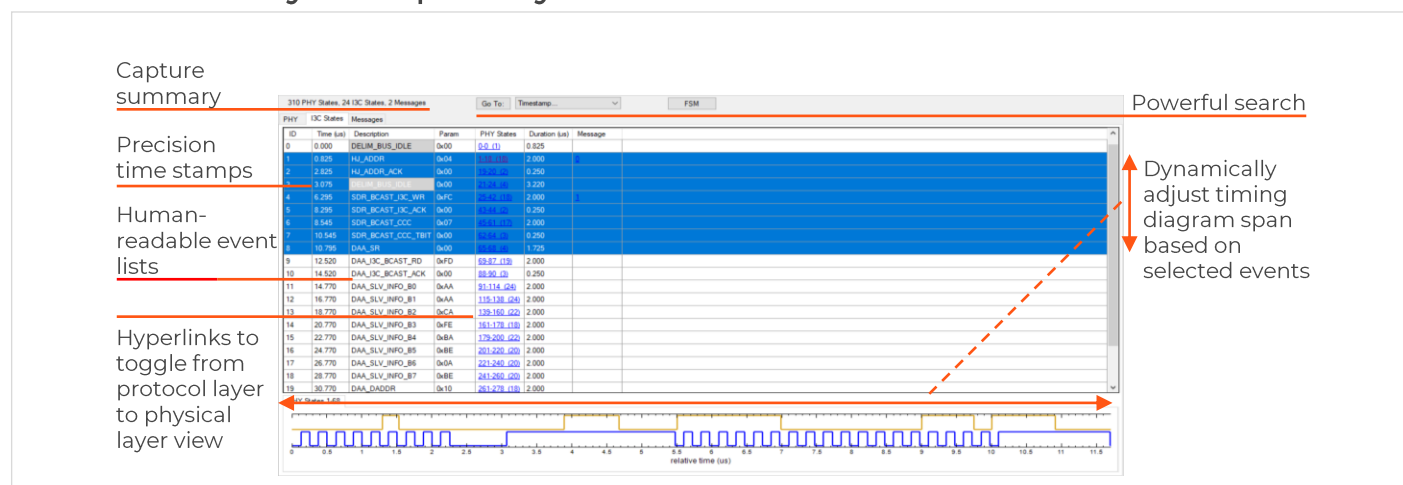


General Specifications

FEATURE	DESCRIPTION	BENEFIT
Available Protocols	I3C (up to v1.2), I3C Basic (up to v1.2), JESD403-1 SidebandBus, Quad SPI, Octal SPI, SoundWire, RFFE	Load a protocol license at any time without the need for a hardware upgrade
Number of I/O Channels	2 banks of 10 channels each	Emulates the most complex multi-drop protocol situations
Maximum Data Rate	400 Mbps in DDR mode (200 MHz clock frequency)	Provides a future-proof investment for next generation device data rates
On-Board Memory	1 GByte	Can stream to PC for larger memory capacity

FEATURE	DESCRIPTION	BENEFIT
Voltage Range	0.8 V to 3.6 V in 1 mV steps	Supports a wide array of devices under test
Push/Pull and Open-Drain Drivers	Selectable per channel	Enables mixed bus testing for I2C and I3C applications
Bus High-Keepers	Selectable per channel	Useful for multiple low-power protocols
Timing Resolution	2.5 ns logic, 100 ps analog	Fine and coarse capabilities depend on the parameter being set and the protocol being exercised

Detailed Analysis Capability



TO LEARN MORE, SEND US AN EMAIL AT [INFO@INTROSPECT.CA](mailto:info@introspect.ca)