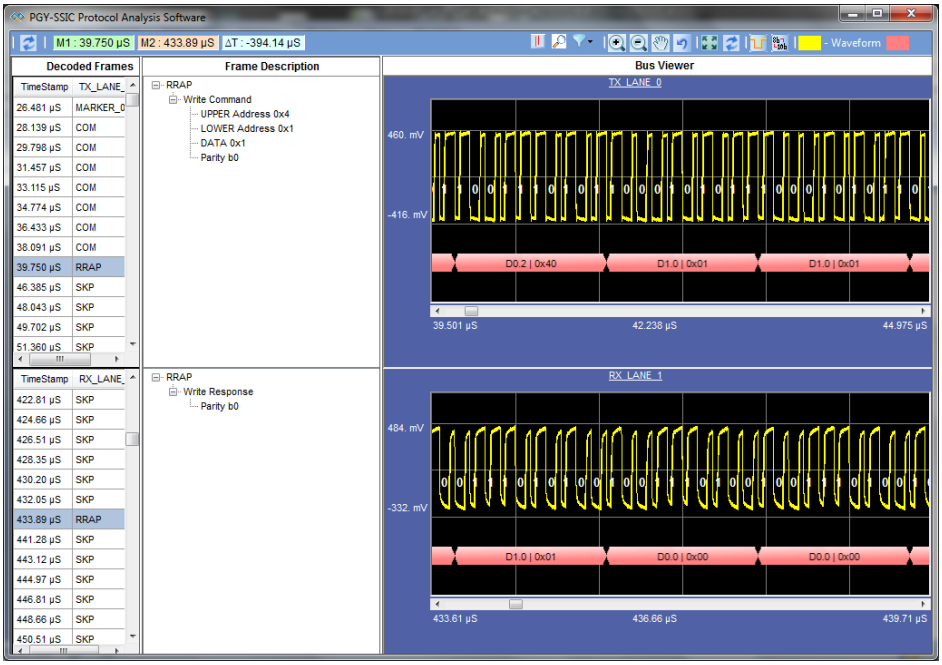
PGY-SSIC MIPI SSIC Protocol Analysis Software



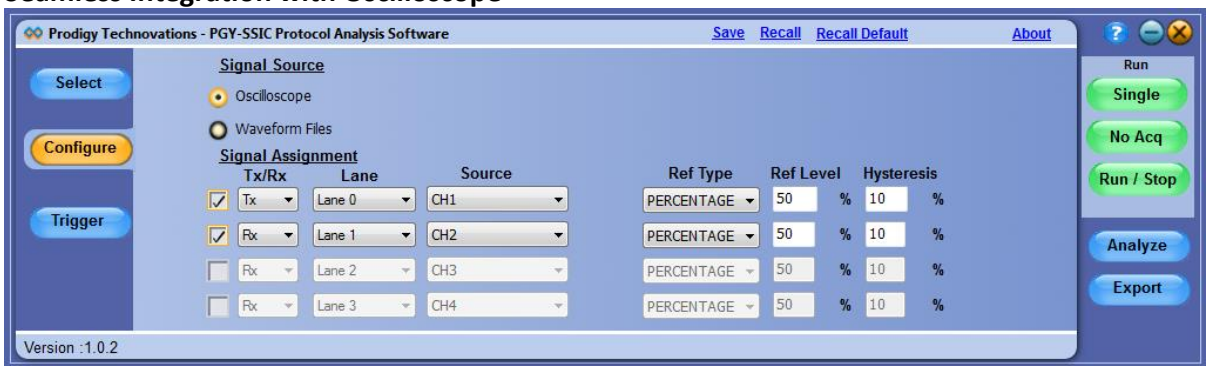
SSIC Protocol Analysis Software

PGY-SSIC MIPI-SSIC Protocol Analysis Software is the oscilloscope-based protocol analysis tool for SSIC serial bus using live and saved oscilloscope signals. PGY-SSIC Software gives insight of SSIC signals from electrical waveform to protocol packet details. This software runs inside Tektronix oscilloscopes.

Features:

- Simultaneous display of protocol packet data with detail frame information in tree structure format and correlating with electrical waveform for easy debug
- Overlaying decoded data bits on waveform for PWM and HS signals for easy understanding of signal transition
- Protocol view provides time synchronized protocol activities between TX and RX lanes with timing info and direction of protocol events
- Protocol view provides messaging in bit pattern for easy interpretation
- Protocol view provides symbol details and its 8bit and 10bit values
- Flexibility to view 8B/10B decoded data in bus diagram
- Real-time protocol aware trigger enables acquiring signals at specific protocol event
- Flexibility to filter out sync, com, idle and skip states in decoded data allowing user to focus on main protocol events
- Markers M1 and M2 in detail views allow easy timing measurements
- Software seamlessly integrates with Tektronix windows based oscilloscope and supports protocol analysis using live data from oscilloscope
- Search and filter capabilities to locate protocol event
- Long duration data decode support to capture more numbers of events
- Offline analysis capabilities using WFM files
- Documentation by exporting data in CSV and TXT file format

Seamless Integration with Oscilloscope

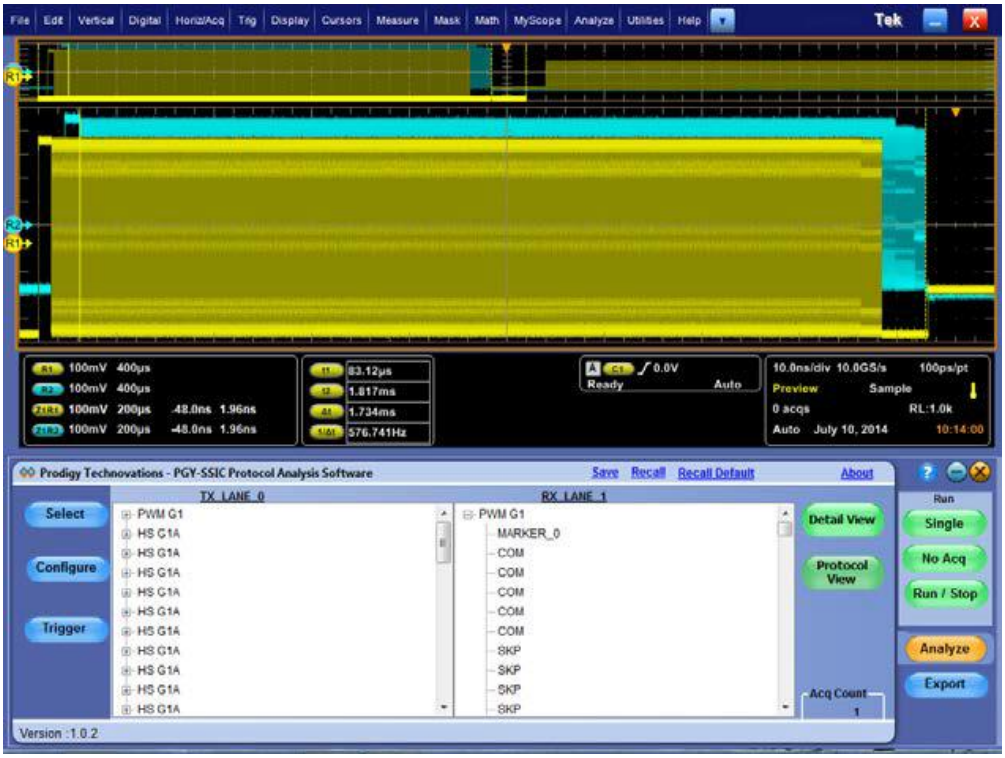


PGY-SSIC MIPI-SSIC Protocol Analysis Software runs inside the Tektronix high performance windows oscilloscopes. Engineers can configure PGY-SSIC Software to automatically import the data from oscilloscopes live channels or wfm file format. This enables live and offline protocol testing of SSIC protocol.

- SSIC signal source for protocol analysis could be live channels of oscilloscope or saved wfm file format data
- Protocol aware trigger leverages Tektronix oscilloscope serial pattern trigger and enables setting protocol trigger
- Supports Single Acquisition, Repetitive and No Acq mode using oscilloscope live data.

PGY-SSIC MIPI-SSIC Result Analysis

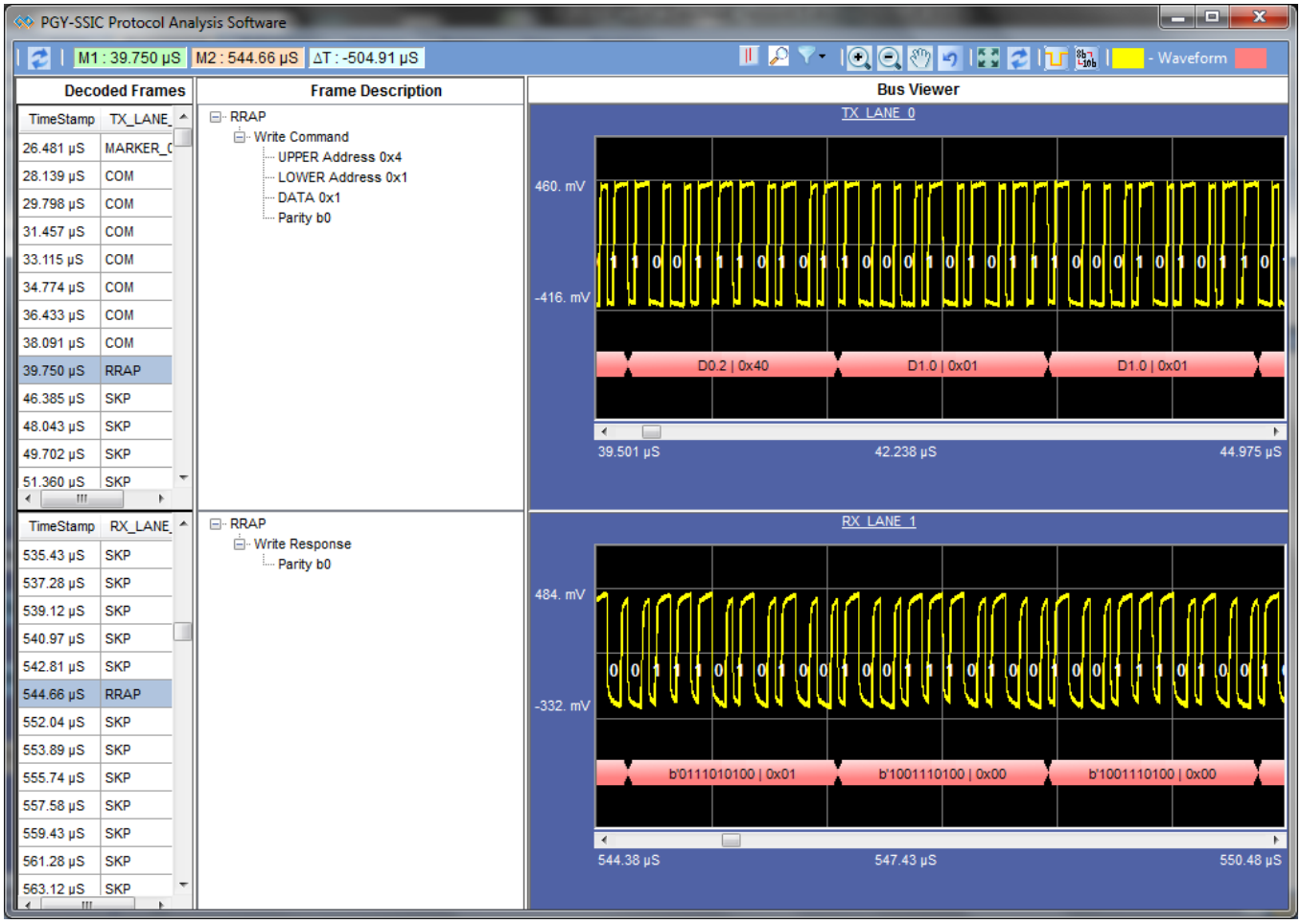
Result Pane: Provides results from PGY-SSIC Protocol Analysis Software. PGY-SSIC Software displays each lane of decoded data. By collapsing, each burst packet provides different frames and content within each frame. PGY-SSIC software links decoded frame of individual lane to corresponding electrical waveform in oscilloscope display and helps in correlating protocol activity with physical layer information.



Result pane displays decoded results with oscilloscope waveform display

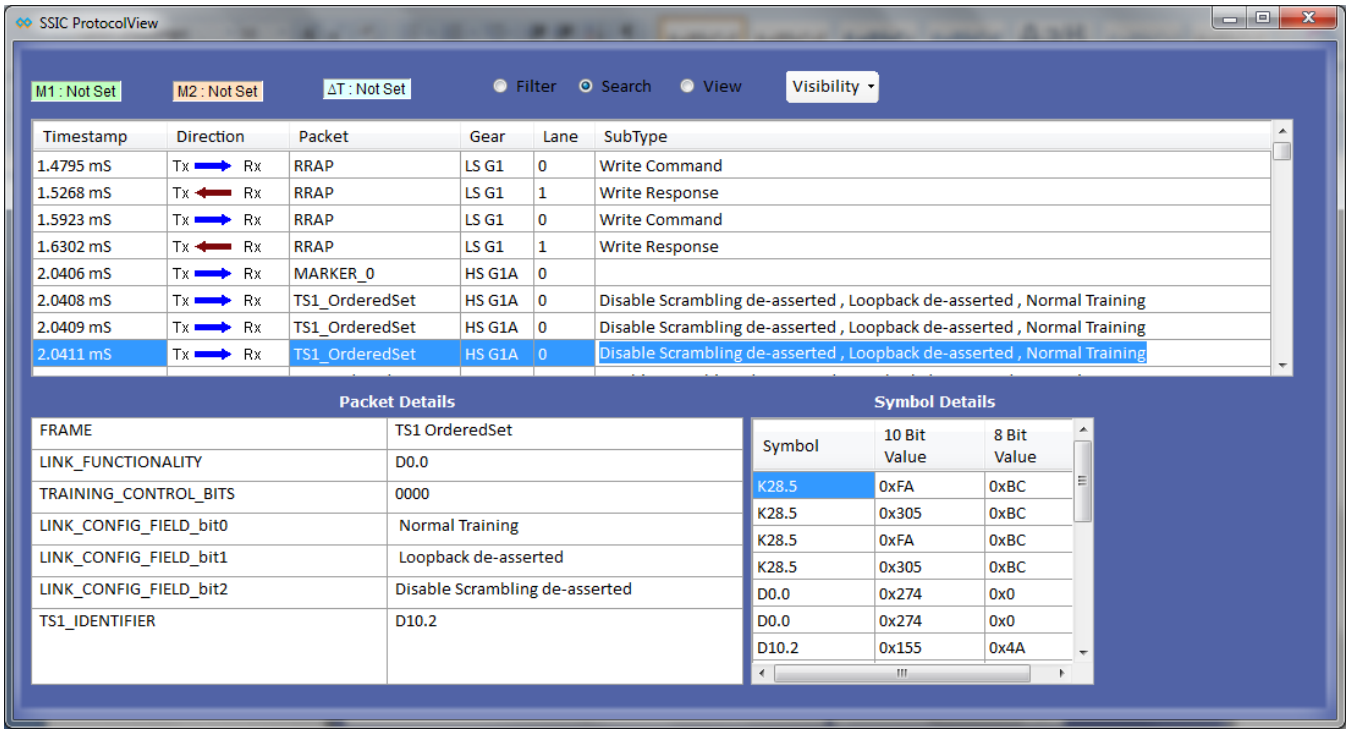
For Protocol validation and debugging, PGY-SSIC software provides Detail View and Protocol View

Detail View: PGY-SSIC Software displays Detail View which correlates the protocol event to electrical waveform in a single view. It provides low level information from binary values for PWM and HS signals to packet level information for easy interpretation. TX and RX lane decoded data is displayed. Markers can be placed on decoded frames to know the timing value between protocol events in different lanes. Frame description provides dropdown tree structure information to know the message and packet content. Bus viewer synchronously displays selected protocol packets waveform with a bus diagram. This contains symbol info, overlaying of binary info on waveform and 8B/10B data display. Filter and search features enable focus on protocol event of interest for easy analysis.



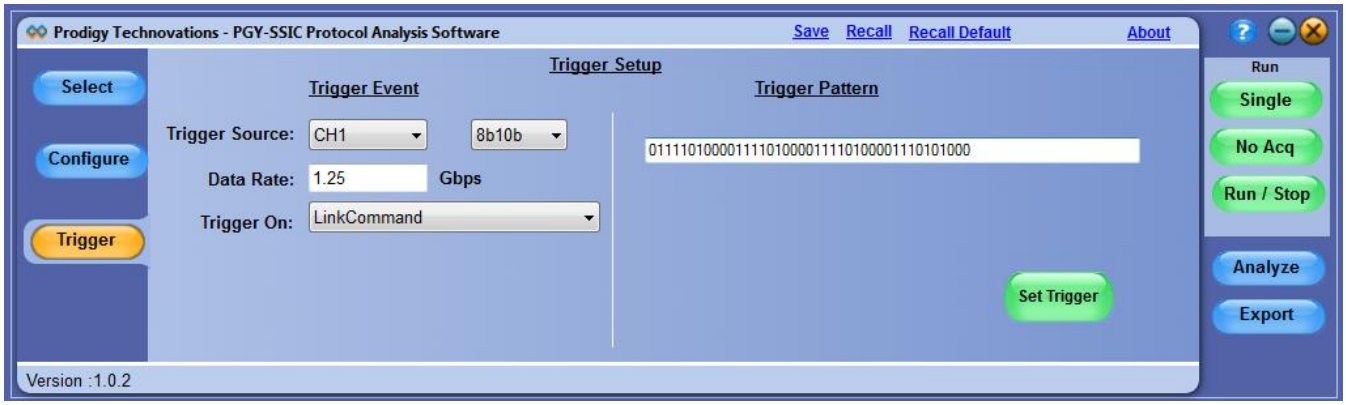
Detail View

Protocol View: Protocol View synchronizes multiple lane data and displays it in the time synchronized event viewer. This offers insight about the communication between host and device with the timing data. User can quickly view the direction of communication, type of packet being exchanged, speed at which it is exchanged, lane number and main functions of packet. User can focus on event of interest using filter and search features in Protocol View. Packet detail contains each packets status at bit level for easy understanding of the protocol status. Symbol tables give symbols, 8 bit and 10bit values of each symbol.



Protocol View

Protocol Aware Trigger: PGY-SSIC software leverages option ST6G in Tektronix oscilloscope and sets real time protocol-based trigger condition. PGY-SSIC supports both PWM and HS speed for Protocol aware trigger.



Protocol Aware Trigger Types	
Burst Type	**Protocol Packet Type**
PWM	Write Command
	Write Response
	Read Command
	Read Response
HS (8B/10B)	Marker0
	TS1 Order Set
	TS2 order Set
	Skip Order Set
	Link Command
	Link Management Packet
	Transaction Packet
	Data Packet
	Isochronous Data Packet

Oscilloscopes Supported

- MSO5000 Series Oscilloscope
- DPO70000 Series Oscilloscope
- MSO70000 Series Oscilloscope
- DSA70000 Series Oscilloscope

Ordering Information

PGY-SSIC MIPI SSIC Protocol Analysis Software (shipment includes PGY-SSIC MIPI-SSIC Protocol analysis Software CD)

Contact Information

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