

Protocol Setup	Select Data Rate 600 Mb/s to 14.1 Gb/s. Selection for source channel. Supports Single (differential probe) or dual (two single-ended probes) input(s) for decoder. Trigger requires a single input (differential probe).	Select Data Rate 1 Gb/s to 100 Gb/s. Selection for source channel. Supports Single (differential probe) (two single-ended probes) input(s) for decoder. Trigger requires input (differential probe).
<b>Decode Capability</b>		
Format	Hexadecimal (byte), 8b/10b Symbol, or Primitive.	64b/66b encoding with Hexadecimal or Primitive (User-Defined).
Decode Setup	Select Data Rate. Selection for source input. Threshold definition required in percent amplitude (default is 50%).	Select Data Rate. Selection for source input. Threshold definition required in percent amplitude (default is 50%).
Decode Input	Any analog Channel, Memory or Math trace.	Any analog Channel, Memory or Math trace.
# of Decoded Waveforms	Up to 4 unique Tx or Rx lanes may be decoded at one time. In addition, zooms can be displayed (with decoded information).	Up to 4 unique Tx or Rx lanes may be decoded at one time. In addition, zooms can be displayed (with decoded information).
Location	Overlaid on physical layer waveform, on Grid.	Overlaid on physical layer waveform, on Grid.
Visual Aid	Color coding for hexadecimal bytes or 8b/10b bytes/symbols.	Color coding for 64b/66b data blocks 64b/66b control blocks, FEC FEC parity.
<b>Trigger Capability</b>		
Format	Primitive or Symbolic	Primitive (Word), Hexadecimal, or Binary
Trigger Setup	Trigger on either of two data patterns in an "OR" configuration (each up to 80 bits long). Trigger on any of up to 6 different 8b/10b symbols in an "OR" configuration. Trigger on an 8b/10b symbol string up to 8 symbols long. Trigger on a single primitive. Trigger on an 8b/10b symbol error.	Trigger on either of up to two 64b/66b symbol strings in a single lane. Select to trigger on either a Data Frame (01 sync preamble) or Cor Frame/Mixed Control & Data Frame (10 sync preamble), or "either frames)
Special Symbol Setup	Trigger on a string of up to 8 consecutive special "K" or "D" 8b/10b control symbols. Trigger on any combination of up to 6 symbols in an "OR" configuration. Select Running Disparity +, -, or either for each symbol.	
Special Primitive Setup	Trigger on a specific primitive from a selection of primitive sets for PCIe 1.x, PCIe 2.0, SATA, SAS, XAUI, USB3.0, or user-defined.	Trigger on protocol-defined Words (user-selectable, user-definable)
Bus Event Triggering		
Link Layer (Ordered Sets)		

Data Link Layer Packet Triggering		
Transaction Layer Packet Triggering		
Error Triggering	<p>Trigger on invalid "K" or "D" Symbol Codes (those not considered to be one of the 256 valid symbols).</p> <p>Trigger on a Running Disparity Error.</p> <p>Trigger on either of the above two errors.</p>	<p>Trigger on Invalid Sync Header ("00" or "11"), Unknown Type Field (protocol-dependent), FEC Parity Error. Trigger on any combination of these errors.</p>
Trigger Input	Oscilloscope analog Channel 4 only.	Oscilloscope analog Channel 4 only.
Trigger Design	Internal to oscilloscope, settable like any other oscilloscope true hardware protocol trigger.	Internal to oscilloscope, settable like any other oscilloscope true hardware protocol trigger
<b>Search Capability</b>		
Pattern Search	<p>Search by the following:</p> <p>Primitive (protocol specific list), Next Symbol, Next Invalid Symbol</p>	<p>Search by the following:</p> <p>FEC Block, 64b66b block types, 64b66b control block's type field, (Any, FEC Error, 64b66bError, Unknown Type Field Error, Type Mismatch With Data Error).</p>
<b>Other</b>		
Compatible With	Fully compatible with WaveMaster 8 Zi/Zi-A, LabMaster 9 Zi-A, and LabMaster 10 Zi Series.	Fully compatible with WaveMaster 8 Zi/Zi-A, LabMaster 9 Zi-A, and LabMaster 10 Zi Series.