Specifications/Characteristics

RS232/UART specifications/characteristics (DSOX2COMP, DSOX3COMP, DSOX4COMP, and DSOX6COMP)	
Tx and Rx input source	Analog channels 1, 2, 3, or 4 Digital channels D0 to D15 (3000, 4000, and 6000 X-Series only)
Bus configuration	
Baud rates	100 b/s up to 8 Mb/s
Number of bits	5 to 9
Parity	None, odd, or even
Polarity	Idle low or idle high
Bit order	LSB out first or MSB out first
Triggering	Rx start bit Rx stop bit Rx data Rx 1:data (9-bit format) Rx 0:data (9-bit format) Rx X:data (9-bit format) Rx or Tx parity error Tx start bit Tx stop bit Tx data Tx 1:data (9-bit format) Tx 0:data (9-bit format) Tx X:data (9-bit format) Burst (nth frame within burst defined by timeout)
Hardware-based decode	
Number of decode traces	2 independent traces (Tx and Rx)
Data format	Binary, hex, or ASCII-code characters
Data byte display	White characters if no parity error, red characters if parity or bus error
Idle bus trace	Mid-level bus trace in blue
Active bus trace	Bi-level trace in blue
Multi-bus analysis	RS232/UART plus one other serial bus, including another RS232/UART bus. (3000, 4000, and 6000 X-Series only)
Totalize/counter function	Total received frames Total transmitted frames Total parity error frames (with percentage)