

Acute TravelLogic

2-in-1 Analyzer (Protocol & Logic)

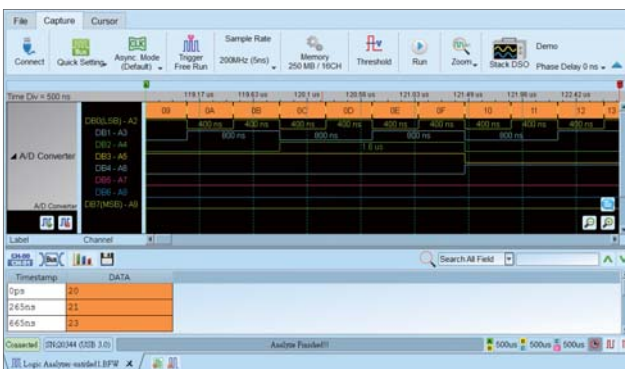


123 x 76 x 21 mm³

- PC-based
- USB3.0 interface
- 34 Channels (Max.)
- 2GHz timing (Max.) / 200MHz state analysis
- 8Gb Memory (Max.)
- Voltage detect : 2 sets
- Stacks with Acute or another DSO to form as an MSO
- Bus Trigger I : I²C, SPI, UART, USB PD3.0
- Bus Trigger II : BiSS-C, CAN2.0, DALI, I²S, I³C, LIN2.2, LPC, MDIO, Modbus, PWM, SVID, ...
- Bus Trigger III : eMMC 4.5, eSPI, MIPI SPMI 2.0, NAND Flash, SD 3.0, Serial Flash (SPI NAND)
- Protocol Analyzer I : I²C, SPI, UART, USB PD3.0
- Protocol Analyzer II : BiSS-C, CAN2.0, DALI, I²S, I³C, LIN2.2, SVID, MDIO, PWM, USB1.1, ...
- Protocol Analyzer III : eSPI
- Bus Decode : BiSS-C, CAN, eMMC5.0, eSPI, I²C, I²S, I³C, NAND Flash, Profibus, SD3.0, SPI, SVID, UART, USB1.1, USB PD3.0... (80+)

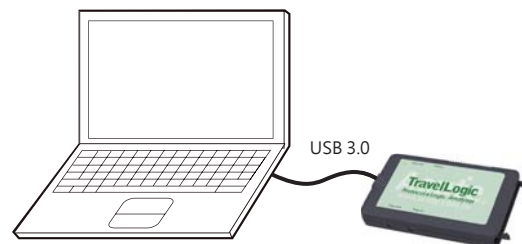
Model	Channels	Sample Rate	Memory	Bus Trigger	Protocol Analyzer
TL3017E	17	1GHz	16Mb	I ² C	I ² C
TL3134E	34	1GHz	1Gb	I	I
TL3134B	34	1GHz	1Gb	I, II	I, II
TL3234B+	34	2GHz	8Gb	I, II, III	I, II, III

Software Window



System Requirements

- USB 3.0 port
- Win 7, Win 8, Win 10 (64 bit)
- PC RAM 16GB (recommended) or 8GB at least



Acute

PC-based T&M Instruments

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TL3000E/B series

Model		TL3017E	TL3134E	TL3134B	TL3234B+
Power	Power Source	USB bus-power (+5V)			
	Static Power Consumption	0.75W			
	Max Power Consumption	<2.5W			
Hardware Interface		USB3.0 (USB2.0 compatible)			
Timing Analysis (Asynchronous, Max. Sample Rate)		1GHz		2GHz	
State Clock Rate (Synchronous, External Clock)		200MHz			
Storage		Conventional Timing, Transitional Timing			
Channels (Data / Clock / Analog / Ground)		16 / 1 / 1 / 2		32 / 2 / 2 / 4	
Total Memory		16Mb	1Gb		8Gb
Timing vs. Channels vs. Memory	Timing Analysis	Available channels / Memory per channel			
	2GHz	---			
	1GHz	8 / 2Mb	8 / 125Mb		4 / 2Gb
	500MHz	16 / 1Mb	16 / 62Mb		8 / 1Gb
	250MHz	16 / 1Mb	32 / 31Mb		16 / 500Mb
	200MHz	8 / 2Mb, 16 / 1Mb	8 / 125Mb, 16 / 62Mb, 32 / 31Mb		32 / 250Mb, 4 / 2Gb, 8 / 1Gb, 16 / 500Mb, 32 / 250Mb
Trigger	Resolution	1ns			500ps
	Channels	16	32		
	States	16			
	Events	16			
	Pre / Post	Yes			
	Pass Counter	Yes (0~1048575 times)			
	Types	Range, Word, Channel, Width, Time-out, Sigle / Multi Level			
	Bus I	I ² C	I ² C, SPI, UART, USB PD3.0		
	Bus II	---	BiSS-C, CAN2.0, DALI, HID over I ² C, I ² S, I ³ C, LIN2.2, LPC, MDIO, Modbus, PMBus, Profibus, PWM, SMBus, SVI2, SVID, USB1.1		
	Bus III	---	eMMC4.5, eSPI, MIPI SPMI 2, NAND Flash, SD3.0, Serial Flash (SPI NAND)		
Threshold	Group	2 (ch0~7, ch8~15 & clk0)	4 (ch0~7, ch8~15 & clk0, ch16~23, ch24~31 & clk1)		
	Range	+5V ~ -5V			
	Resolution	50mV			
	Accuracy	±100mV + 5%*Vth			
Input Voltage	Maximum	±40V DC, 15Vpp AC			
	Sensitivity	0.25Vpp @50MHz, 0.5Vpp @150MHz, 0.8Vpp @250MHz			
Impedance		200KΩ//<5pF			
Temperature	Operating / Storage	5°C~45°C (41°F~113°F) / -10°C~65°C (14°F~149°F)			
Channel to channel skew		< 1ns			
I/O port	Trig-In	TTL 3.3V level (Rising / Falling)			
	Trigger pulse approval	> 8 ns			
	Trig-Out	TTL 3.3V, Pulse Width			
	Ref. Clock Input	10MHz, Vpp=3.3 to 5V			
	Ref. Clock Output	10MHz, TTL 3.3V			
	Connector type	MCX jack / female			
Protocol Analyzer/ Protocol Logger / Protocol Monitor	I	I ² C	I ² C, SPI, UART, USB PD3.0		
	II	---	BiSS-C, CAN2.0, DALI, HID over I ² C, I ² S, I ³ C, LIN2.2, MDIO, Modbus, PMBus, Profibus, PWM, SMBus, SVID, USB1.1, USB PD3.0		
	III	---	eSPI		
Software Features	Zoom In / Out	Yes			
	Language	English / Simplified Chinese / Traditional Chinese			
	Waveform Height	Adjustable			
	Zoom / Report Window	Yes			
	Quick Cursor-positioning	Yes			
	Import Label(s)	Yes			
	Quick Bus Decode Setup	Yes			
	Trigger / Auxiliary cursors	1/25			
	Data Logger	Saved to Hard Disk			
	Bus Decode	1-Wire, 3-Wire, 7-Segment, A/D Mux Flash, AccMeter, ADC, APML, BiSS-C, BSD, CAN 2.0, Close Caption, DALI, DMX512, DP Aux, EDID, eMMC 5.1/MMC, eSPI, FlexRay, HDMI CEC, HD Audio, HDLC, HDQ, HID over I ² C, I ² C, I ² C EEPROM, I ² S, I ³ C, I ⁸ O, IDE, ITU656, IrDA, JTAG, LCD1602, LIN2.2, Line Encoding, Line Decoding, Lissajous, LPC, LPT, M-Bus, Math, MDIO, MHL CBUS, Microwire, MII, MIPI DSI, MIPI RFFE, MIPI SPMI 2.0, Modbus, NAND Flash, NEC IR, PECE, PMBus, Profibus, PS/2, PWM, QI, RGB Interface, RC-5, RC-6, SD3.0 (SDIO), Serial Flash, Serial IRQ, SGPIO, Smart Card, SMBus, SMI, S/PDIF, SPI, SPI-NAND, SSI, ST7669, SWD, SWP, SVI2, SVID, UART, UNI/O, USB 1.1, USB PD 3.0, Wiegand, ...			
	Line Decoding	Biphase Mark, Differential-Manchester, Manchester (Thomas, IEEE802.3), Miller, Modified Miller, NRZI, ...			
	Line Encoding	AMI(Standard, B8ZS, HDB3), Biphase Mark, CMI, Differential-Manchester, Manchester (Thomas, IEEE802.4), MLT-3, Miller, Modified Miller, NRZI, Pseudoternary, ...			
	Dimension	L x W x H (mm ³)	123 x 76 x 21 (mm ³)		
Lead Cable	(Data / CLK / Analog / GND)	A 40-pin lead cable (32 / 2 / 2 / 4)			
Grippers		20	40		

