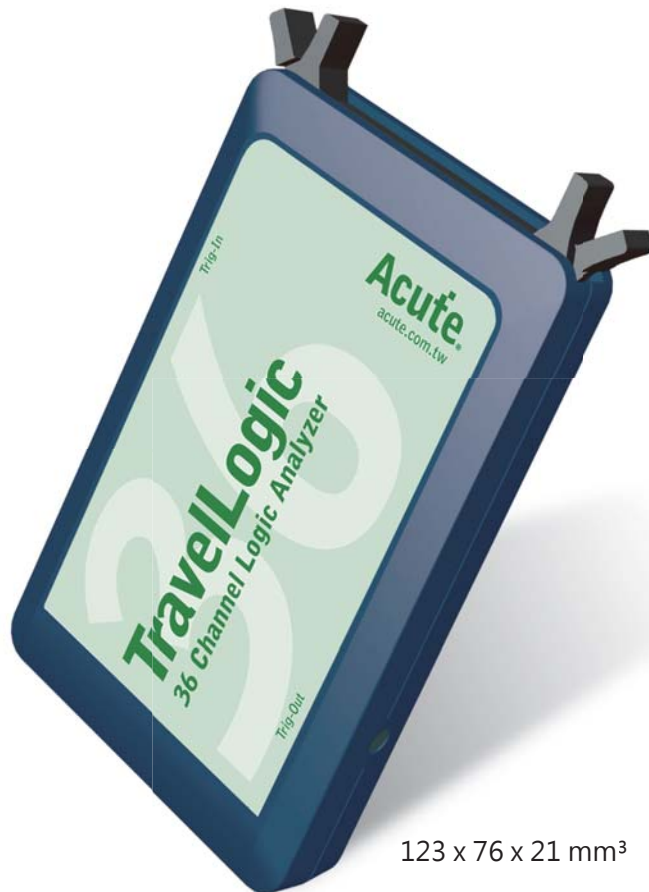


Acute TravelLogic series 4 GHz Logic Analyzer

Features

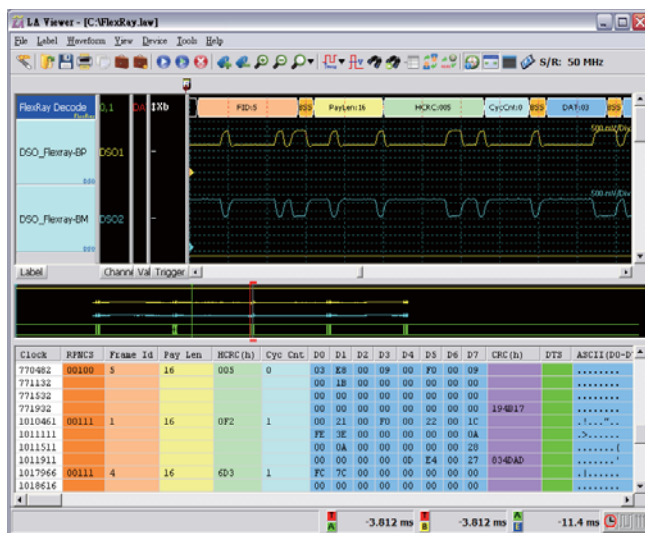
- PC-based
- USB2.0 interface/powered
- 36 channels
- 4GHz Timing analysis
- 200 MHz State analysis
- 180 K/18 M/72Mb memory (stackable)
- Bus Trigger (TL2036E provides I²C only)
- Bus Trigger (CAN, I²C, I²S, SPI, SVID, UART, ...)
- Bus Decode (CAN, FlexRay, I²C, I²S, SDIO, SPI, SVID, UART, USB1.1, ...see the other side)
- 4-conditions (4 levels each) trigger
- Data Logger (HD storage)
- Transitional Storage/Qualified Storage
- Stackable with Acute or other brand DSO to form an MSO
- Input Sensitivity 0.25Vpp



123 x 76 x 21 mm³

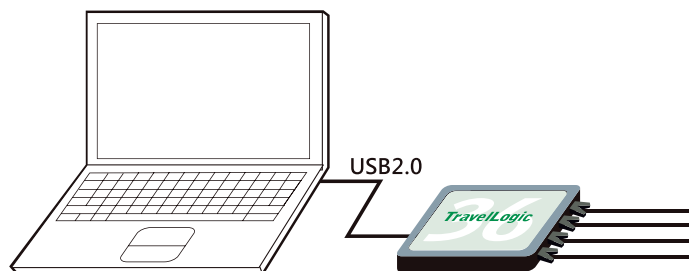
Model	Timing	State	Total Memory
TL2036E	4 GHz	200 MHz	180 Kb
TL2136B	4 GHz	200 MHz	18 Mb
TL2236B	4 GHz	200 MHz	72 Mb

Software Window



System Requirements

- USB 2.0 port
- Windows XP/ Vista / 7/ 8 (x86/x64)



Acute®

PC-based T&M Instruments

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TravelLogic series

Model		TL2036E	TL2136B	TL2236B
Power	Power Source	USB bus-power (+5V)		
	Static Power Dissipation	0.75W		
	Max Power Dissipation	<2.5W		
Hardware Interface		USB2.0 (USB1.1 Compatible)		
Timing Analysis (Synchronous, Max Sample Rate)		4 GHz		
State Clock Rate (Asynchronous, External Clock)		200 MHz		
Transitional Storage		Multi channel (55 bits at 5 ns resolution/5.7 years duration)		
Qualified Storage		Only supports Transitional Storage		
Channels (Signal/Ground)		36/4		
Total Sample Memory		180K bits	18M bits	72M bits
Memory (bits) per channel vs. number of channels available	Timing Analysis	Memory (bits) per channel/number of channels available		
	4 GHz	2.5K/36		
	2 GHz	5K/36		
	1.6 GHz	32K/4	4M/4	16M / 4
	800 MHz	16K/9	2M/9	8M/9
	400 MHz	8K/18	1M/18	4M/18
	200 MHz	4K/36, 8K/18	512K/36, 1M/18	2M/36, 4M/18
		12K/12, 16K/9	1.5M/12, 2M/9	6M/12, 8M/9
		24K/6, 36K/4	3M/6, 4.5M/4	12M/6, 18M/4
		72K/2, 144K/1	9M/2, 18M/1	36M/2, 72M/1
Trigger	Resolution	250ps		
	Channels	36		
	Conditions	Yes (4)		
	Levels for each Condition	Yes (16)		
	Pre/Post Trigger Setting	Yes		
	Pass Counter	Yes (0 ~ 1048575 times)		
	Event Types	Word, Channel, Transition, Glitch, Width, Comparison		
	Bus Trigger	I ² C	CAN, I ² C, I ² S, SPI, SVID, UART	
	Input Port (for Stack)	TTL 3.3V		
	Output Port (for Stack)	TTL 3.3V		
Threshold	Range	+6V ~ -6V		
	Resolution	50mV		
	Accuracy	±100mV + 5%*Vth		
	Schmitt Trigger	Yes (Dual Threshold Mode)		
Input Voltage	Maximum	±40V DC, 15Vpp AC		
	Sensitivity	0.25Vpp @50MHz, 0.5Vpp @150MHz, 0.8Vpp @250MHz		
Impedance		200KΩ// <5pF		
Temperature	Operating/Storage Temperature	5°C ~ 45°C (41°F ~ 113°F)/-10°C ~ 65°C (14°F ~ 149°F)		
Channel to channel skew		< 1ns		
Software Features	Zoom In/Out	Yes (Scroll the mouse wheel)		
	Languages	English/Traditional Chinese/Simplified Chinese		
	Waveform Height	Adjustable		
	Zoom Window/Report Window	Yes		
	Quick Cursor-positioning	Yes		
	Import Label(s)	Yes		
	Quick Bus Decode Setup	Yes		
	Trigger cursor/Auxiliary cursors	1/25		
	Data Logger	Saved to Hard Disk		
	Bus Decode	1-Wire, 3-Wire, 7-Segment, A/D Converter, APML, CAN, Close Caption, CEC, DALI, DDC(EDID), DMX512, DP-Aux, FlexRay, HD Audio, HDQ, HDMI-EDID, I ² C, I ² C EEPROM, I ² S, I80, IDE, Indicator, ITU656(CCIR656), IrDA, JTAG, LCD1602, LIN, Lissajous, LPC, Math, MDIO, Microwire, MII(RMII), MMC(eMMC), Modbus, Nand Flash, NEC IR, PECL, PMBus, PS/2, PWM, Qi, RC-5, RC-6, SDIO(SD3.0), Serial Flash, Serial IRQ, SGPIO, Smart Card(ISO7816), SMBus, SMI, S/PDIF, SPI, SSI, ST7669, SWD, SVID, UART, UNI/O, USB 1.1, ...		
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, IEEE802.3), MLT-3, Miller, Modified Miller, NRZI, Pseudoternary, ...			
Dimension	Length x Width x Height (mm ³)	123 x 76 x 21 (mm ³)		
Lead Cable		A 40-pin Teflon insulated lead cable (36 Signal + 4 Ground)		
Grippers		10	40	

Acute

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