Acute TravelBus

2 in 1 Analyzer (Protocol & Logic)

96 x 74 x 24 mm³

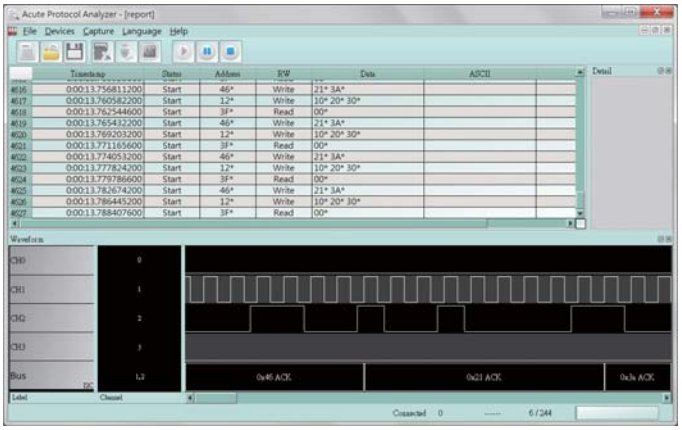
- PC-based, USB 3.0 interface/powered
- 200 MHz timing/state analysis
- Digital channels : 16 (Data), 1 (Clock), 2 (I²C)
- Memory : PC RAM
- Data logger
- Real time data display and post-capture waveform display
- Module I

  Bus analysis : DALI, HID over I²C, I²C, I²S, LIN2.2, MDIO, PMBus, RS232, SMBus, SPI, USB1.1
- Module II
  - · Bus analysis : CAN2.0, Modbus, Profibus, RS422, RS485
  - · Differential channels : 2 (CAN2.0), 4 (RS422/485)
  - · Stackable with Acute TravelScope DSO to form an MSO
  - · Isolated : CAN/RS485 (>1000Vrms)
- Module III

  Bus analysis : BiSS-C, PWM
- Bus Decode : I²C, I²S, LIN2.2, SMBus, PWM, SMBus, SPI, UART, USB PD 2.0, ... (60+ decodes)

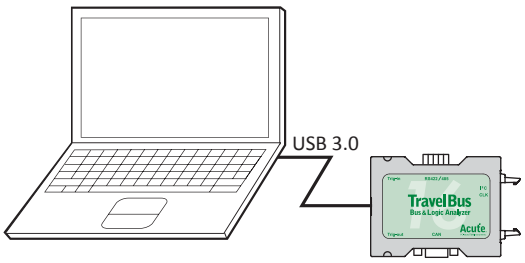
Model	Channels	Module	Bus Decode	Memory	DSO stack
TB1016E	19	I	YES	PC RAM	No
TB1016B	25	I, II	YES	PC RAM	Yes
TB1016B+	25	I, II, III	YES	PC RAM	Yes

Software Window



System Requirements

- USB 3.0 (USB 2.0) port
- XP, Vista, Win 7, Win 8 (32 / 64 bits)



Acute®
PC-based T&M Instruments
Acute Technology Inc.
Tel: +886-2-2999-3275 E-mail: service@acute.com.tw http://www.acute.com.tw

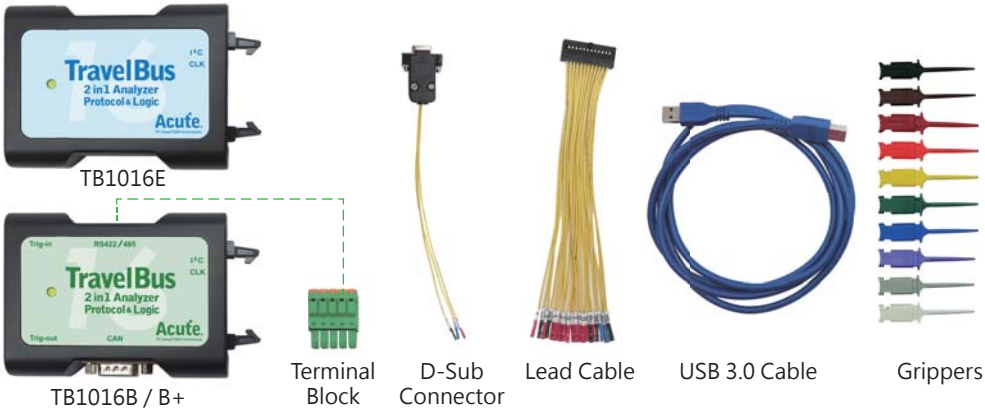
TravelBus series

Model		TB1016E	TB1016B	TB1016B+
Power	Power Source	USB bus-power (+5V)		
	Static Power Dissipation	0.75W		
	Max Power Dissipation	< 2.5W		
Hardware Interface		USB 3.0 (USB 2.0 Compatible)		
Timing Analysis (Asynchronous, Max. Sample Rate)		200 MHz		
State Clock Rate (Synchronous, External Clock)		200 MHz		
Channels (Data / CLK / I²C / CAN / RS485)		16 / 1 / 2 / - / -	16 / 1 / 2 / 2 / 4	
Trigger	Resolution	5 ns		
	Channels	16 (Max.)		
	Conditions	Yes (4)		
	Pre/Post Trigger Setting	Yes		
	Pass Counter	Yes (0 ~ 65536 times)		
	Event Types	Pattern, Channel, Transition, Glitch, Width		
	Module I	DALI, HID over I²C, I²C, I²S, LIN2.2, MDIO, PMBus, RS232, SMBus, SPI, USB1.1		
	Module II	---	CAN2.0, Modbus, Profibus, RS422, RS485	
	Module III	---	---	BiSS-C, PWM
	Input port (for Stack)	---	TTL 3.3V	
	Output port (for Stack)	---	TTL 3.3V	
Threshold	Range	-6V ~ +6V		
	Resolution	50mV		
	Accuracy	±100mV + 5%*Vth		
Input Voltage	Maximum	±40V DC, 15Vpp AC		
	Sensitivity	0.5Vpp @150MHz		
Impedance		200KΩ // <5pF		
Temperature	Operating Temperature	5° C ~ 45° C (41° F ~ 113° F)		
	Storage Temperature	-10° C ~ 65° C (-14° F ~ 149° F)		
Software features	Module I	DALI, HID over I²C, I²C, I²S, LIN2.2, MDIO, PMBus, RS232, SMBus, SPI, USB1.1		
	Module II	---	CAN2.0, Modbus, Profibus, RS422, RS485	
	Module III	---	---	BiSS-C, PWM
	Bus decode	1-Wire, 3-Wire, 7-Segment, AccMeter, ADC, APML, BiSS-C, BSD, CAN2.0, CEC, Close Caption, DALI, DMX512, DP Aux, EDID, Line Decoding, Line Encoding, HDLC, HDQ, HID over I²C, I²C, I²C EEPROM, I²S, ITU656, IrDA, JTAG, LCD1602, LIN2.2, LPT, M-Bus, Math, MDIO, MHL Cbus, Microwire, Modbus, NEC IR, PECI, PMBus, Profibus, PS/2, PWM, QI, RC-5, RC-6, SGPIO, Smart Card, SMBus, SMI, SPI, SSI, ST7669, SWD, SWP, UART, UNI/O, USB 1.1, USB PD 2.0, Wiegand		
Dimension	L x W x H (mm³)	96x74x24		
Lead Cable		24-pin		
Grippers		10	20	

Packing list

	Item	Quantity
1.	TB1016 device	1
2.	Terminal Block (E/B)	0/1
3.	D-Sub Connector (E/B)	0/1
4.	Lead Cable (24-pin)	1
5.	USB 3.0 Cable	1
6.	Grippers (E/B)	10/20

Software and Manual Download links at:
http://www.acute.com.tw



Acute®
PC-based T&M Instruments
Acute Technology Inc.
Tel: +886-2-2999-3275 E-mail: service@acute.com.tw http://www.acute.com.tw