

Acute TravelBus

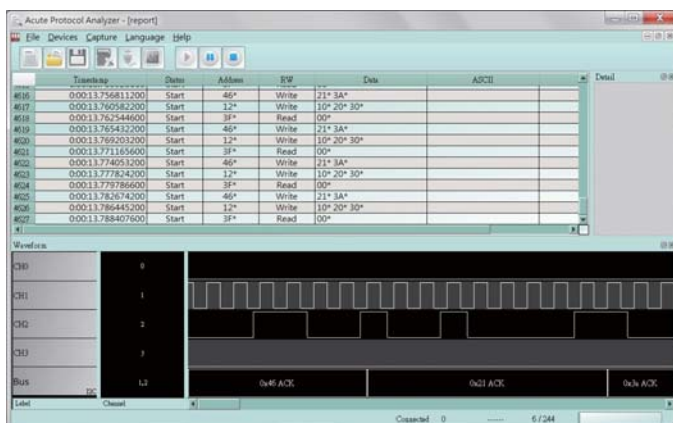
Logic Analyzer & Protocol Analyzer

- PC-based, USB 3.0 interface/powered
- 200 MHz* timing/state analysis
- Digital channels : 16 (Data), 1 (Clock), 2 (I²C/DP_Aux)
- Memory : PC RAM
- Real time data display and post-capture waveform display
- Bus Decode : I²C, I²S, LIN2.2, SMBus, PWM, SMBus, SPI, UART, USB PD3.0, ... (70+ decodes)
- Module I
Protocol Analyzer : I²C, RS232, SPI
- Module II
Protocol Analyzer : HID over I²C, I²S, LIN2.2, MDIO, PMBus, SMBus, USB1.1
- Module III
 - Protocol Analyzer : BiSS-C, CAN2.0B, CAN-FD, DALI2.0, I3C, Profibus, RS422, RS485, ...
 - Differential channels : 2 (CAN2.0B/CAN-FD), 4 (RS422/485)
 - Stackable with Acute TravelScope DSO to form an MSO
 - Isolated Ground : CAN2.0B/CAN-FD, RS485 (Safety Isolation >1000Vrms)



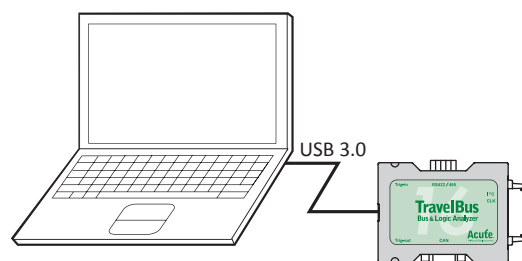
Model	Channels	Module	Bus Decode	DSO stack
TB2016F	19	I	YES	No
TB2016E	19	I, II	YES	No
TB2016B	25	I, II, III	YES	Yes

Software Window



System Requirements

- USB 3.0 port
- Win 7, Win 8, Win10 (32 / 64 bits)



Acute®

PC-based T&M Instruments

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TravelBus series

Model	TB2016F	TB2016E	TB2016B	
Power Source	USB bus-power (+5V)			
Power	Static Power Dissipation			
	0.75W			
Hardware Interface	Max Power Dissipation			
	< 2.5W			
Timing Analysis (Asynchronous, Max. Sample Rate)	USB 3.0			
State Clock Rate (Synchronous, External Clock)	200 MHz*			
Channels (Data / CLK / I ² C / 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)			
Module I	Event Types			
	Channel, Pattern, Single, Width, Time-out, External			
	Module I			
	I ² C, RS232, SPI			
	Module II	---	HID over I ² C, I ² S, LIN2.2, MDIO, PMbus, SMBus, USB1.1	
		---	BiSS-C, CAN2.0B, CAN-FD, DALI2.0, I3C, DP_Aux, Modbus, Profibus, RS422, RS485, USB PD3.0	
	Module III	---	TTL 3.3V	
	Input port (for Stack)	---	TTL 3.3V	
	Output port (for Stack)	---	TTL 3.3V	
	Range	-6V ~ +6V		
Resolution	50mV			
Threshold Accuracy	±100mV + 5%*Vth			
Input Voltage	Maximum			
	±40V DC, 15Vpp AC			
Impedance	Sensitivity			
	0.5Vpp @150MHz			
Maximum target signal speed	200KΩ // <5pF			
Temperature	Data Port: 15MHz, CAN Port: 1Mbps, I ² C Port: 400KHz, RS485 Port: Baud rate 20Mbps			
Protocol Analyzer	Operating / Storage			
	5°C ~ 45°C (41°F ~ 113°F) / -10°C ~ 65°C (-14°F ~ 149°F)			
	Module I	I ² C, RS232, SPI		
Module II	---	HID over I ² C, I ² S, LIN2.2, MDIO, PMbus, SMBus, USB1.1		
	Module III	---	BiSS-C, CAN2.0B, CAN-FD, DALI2.0, DP_Aux, I3C, Modbus, Profibus, PWM, RS422, RS485, USB PD3.0	
Software features	Bus decode			
Dimension	L x W x H (mm ³)			
Lead Cable	96x74x24			
Grippers	24-pin			
	5	10	20	

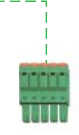
* Measure signal under 14MHz ONLY due to data transmission limitation.

Packing list


Item	Quantity
1. TB2016 device	1
2. Terminal Block (F/E/B)	0/0/1
3. D-Sub Connector (F/E/B)	0/0/1
4. Lead Cable (24-pin)	1
5. USB 3.0 Cable	1
6. Grippers (F/E/B)	5/10/20




TB2016F/E




Terminal Block




D-Sub Connector




Lead Cable



USB 3.0 Cable



Grippers



TB2016B

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