Acute TravelBus Logic/Protocol Analyzer



96 x 74 x 24 mm³

- PC-based, USB 3.0 interface/powered
- 800 MHz timing/ 200 MHz state analysis
- Digital channels : 16 (Data), 1 (Clock), 2 (I²C/DP_Aux)
- Memory : PC RAM
- Protocol Decode : CAN FD, DALI2.0, DP_Aux, I²C, I²S, LIN2.2, PMBus, PWM, SMBus, SPI, MIPI I3C 1.2, UART, USB PD 3, ...(70+ decodes)
- Module I

  Protocol Analyzer : I²C, MIPI I3C 1.2, SPI, UART (RS232)
- 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, DP_Aux, Profibus, RS485, ...
  - · Differential channels : 2 (CAN2.0B/CAN-FD), 4 (RS422/485)
  - · Stackable with a DSO to form an MSO
  - · Isolated Ground : CAN2.0B/CAN-FD, RS485 (Safety Isolation up to 1000Vrms)

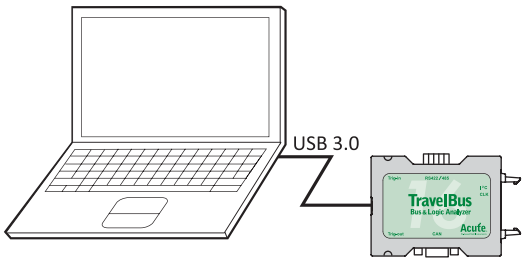
Model	Channels	Module	Protocol Decode	Protocol Trigger
TB3016F	19	I	70+	I
TB3016E	19	I, II	70+	I, II
TB3016B	25	I, II, III	70+	I, II, III

Software Window



System Requirements

- USB 3.0 port
- Win 7, Win 8, Win 10, Win11 (64 bit)



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TravelBus series		TB3016F	TB3016E	TB3016B
Power	Power Source	USB bus-power (+5V)		
	Static Power Dissipation	0.75W		
	Max Power Dissipation	< 2.5W		
Hardware Interface		USB 3.0		
Timing Analysis (Asynchronous, Max. Sample Rate)		800 MHz[1]		
State Clock Rate (Synchronous, External Clock)		200 MHz[1]		
Channels (Data / CLK / I²C; DP_Aux / CAN / RS485)		16 / 1 / 2 / - / -		16 / 1 / 2 / 2 / 4
Timing vs. Channels	Timing Analysis	Available channels		
	800 MHz	8		
	400 MHz	16		
	200 MHz	16		
Threshold	Group	2 (ch0~7, ch8~15 & clk0)		
	Range	±6V		
	Resolution	50mV		
	Accuracy	±100mV + 5%*Vth		
Trigger	Resolution	1.25 ns		
	Channels	16 (Max.)		
	Pre/Post Trigger Setting	Yes		
	Pass Counter	Yes (0 ~ 65536 times)		
	Event Types	Channel, Pattern, Single, Width, Time-out, External		
	Protocol I	I²C, MIPI I3C 1.2, SPI, UART (RS232)		
	Protocol II	---	HID over I²C, I²S, LIN2.2, MDIO, PMBus, SMBus, USB1.1	
	Protocol III	---		10BASE-T1S, BiSS-C, CAN2.0B, CAN-FD, DALI2.0, DP_Aux, SENT, Modbus, Profibus, RS422, RS485, USB PD 3
	Input port (for Stack)	---		TTL 3.3V
	Output port (for Stack)	---		TTL 3.3V
Input Voltage	Maximum	±40V DC, 15Vpp AC		
	Sensitivity	0.5Vpp @150MHz		
Impedance		200KΩ // <5pF		
Maximum target signal speed		CAN Port: 10 Mbps, I²C Port: 400 KHz 3.3V, RS485 Port: Baud rate 20 Mbps		
Temperature	Operating / Storage	5°C ~ 45°C (41°F ~ 113°F) / -10°C ~ 65°C (-14°F ~ 149°F)		
Protocol Analyzer	I	I²C, MIPI I3C 1.2, SPI, UART (RS232)		
	II	---	HID over I²C, I²S, LIN2.2, MDIO, PMBus, SMBus, USB1.1	
	III	---		10BASE-T1S, BiSS-C, CAN2.0B, CAN-FD, DALI2.0, DP_Aux, Modbus, Profibus, PWM, RS422, RS485, USB PD 3
Protocol Decode		1-Wire, 3-Wire, 7-Segment, 10BASE-T1S, 8b10b decoding, AccMeter, ADC, APML, BiSS-C, BSS, BSD, CAN2.0/CAN FD, CEC, Closed Caption, CODEC_SSI, DALI2.0, DDC(EDID), DMX512, DP_Aux,FlexRay, HDLC, HDQ, HID over I2C, HID over SPI, HTSensor, I2C, I2C(EEPROM), I2S, IrDA, ISELED Digital RGB, IOLink, J1850, JTAG, JVC IR, LCD1602, LED_CTRL, LIN2.2, Line Decoding, Line Encoding, LPT, Math, MBus, MCTP over I2C/I3C/SMBus[2], MDIO, MHL-CBUS, Microchip SWI, MICROWIRE, Mini/Micro LED, MIPI CSI LP, MIPI DSI LP, MIPI I3C 1.2, MIPI SoundWire 1.2, Modbus, M-PESTI, NEC IR, OA3p(PMD), OATC6 over SPI, PCM, PDM, PECI, PMBus, Profibus, PS/2, PWM, QEI, QI, RC-5, RC-6, RT_SWI, SDQ, SENT, SGPIO, Smart Card (ISO7816), SMBus (SBS SPD), SMI, SPI, SSI, ST7669, SWD, SWIM, SWP, TDM, UART (RS232), UFCS, UNI/O, USB1.1, USB4/TBT3 SB Channel, USB PD 3, Wiegand		

[1] Measure up to 30 MHz signals due to data transmission limitation.
[2] MCTP over I2C/I3C/SMBus decode supports analysis of Ethernet / MCTP Control / NC-SI / PLDM packets.

Packing list

Item	Quantity
1. TB3016 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

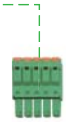
Software and Manual Download links at:
http://www.acute.com.tw



TB3016F/E



TB3016B


Terminal Block


D-Sub Connector


Lead Cable


USB 3.0 Cable


Grippers

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